

MAR 18 1996

NOTICE OF STAKING
(Not to be used in place of
Application to Drill Form 9-331-C)RMGGA
3/8/82**5. Lease Number**

UTU-66426

DIV OF OIL & MINING

1. Oil Well ☐ Gas Well ☒ Other**6. If Indian, Allottee or Tribe Name****2. Name of Operator**

Freedom Energy, Inc.

3. Address of Operator or Agent

1856 Balsam Ave. Greeley, Co. 80631

4. Surface Location of Well
(Governmental 1/4 or 1/4 1/4)

NW/4 660' FWL, 660' FNL Approx.

Attach: Topographical or other acceptable map
showing location, access road, and lease boundaries.**7. Unit Agreement Name****8. Farm or Lease Name**

center Fork f

9. Well No.

17-4

10. Field or Wildcat Name

Wildcat

**11. Sec., T., R., M., or
Blk and Survey or Area**

Sec.17-T12S-R24E

14. Formation Objective(s)

Wasatch/Mesa Verde

15. Estimated Well Depth

4900'

12. County or Parish

Uintah

13. State

Utah

16. To Be Completed by Operator Prior to Onsite

a. Location must staked

b. Access Road Flagged

c. Sketch and/or map of location, showing road, pad dimensions, reserve pit, cuts, and fills
(To be provided at onsite)**17. To Be Considered By Operators Prior to Onsite**a. H₂S Potential

b. Private Surface Ownership

c. Cultural Resources (Archaeology)

d. Federal Right of Way

18. Additional Information

TIGHT HOLE

19. SignedPaul Frank

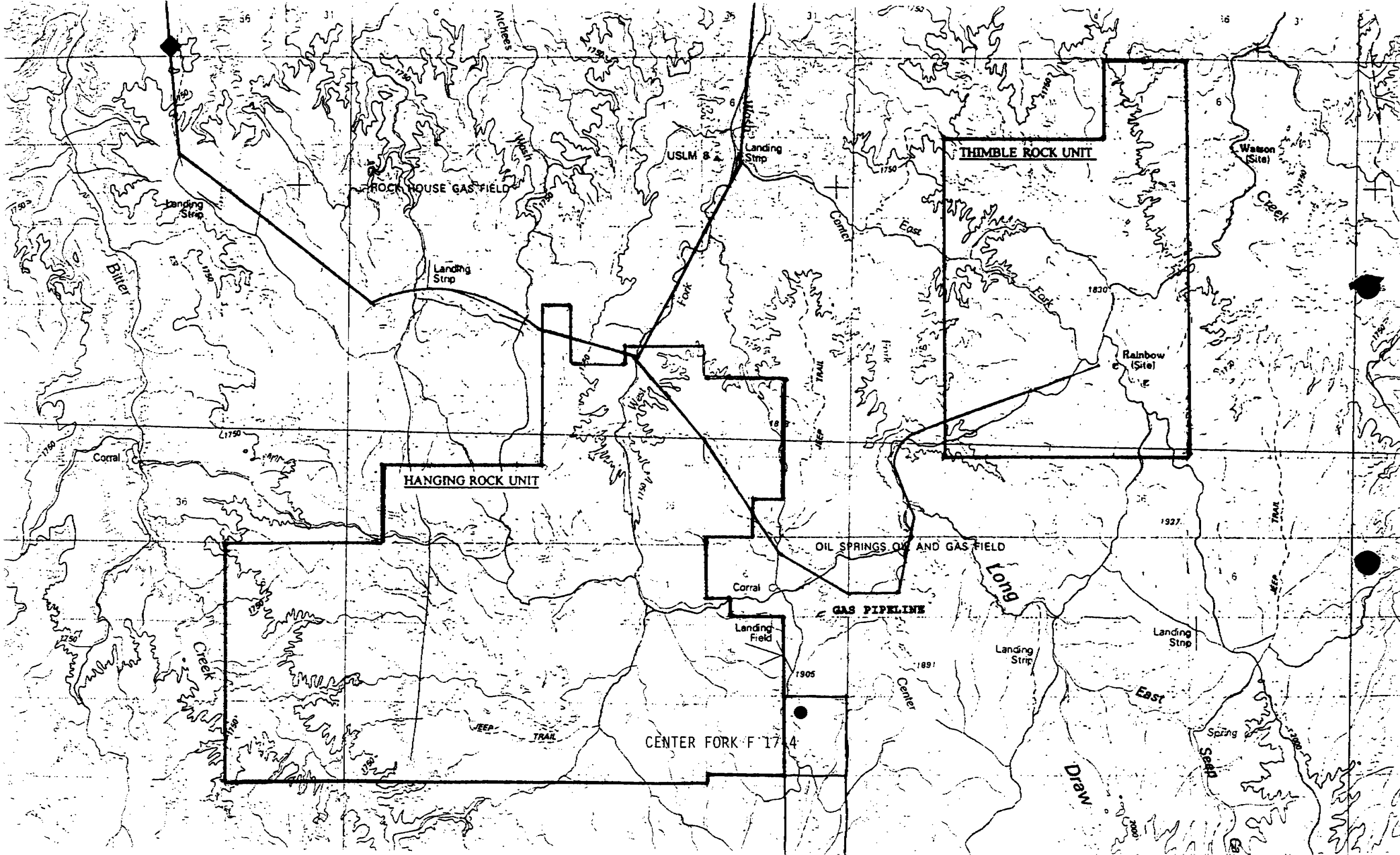
Title

Vice-President

Date

3-12-96

N-3285



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☐

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONES ☒

2. NAME OF OPERATOR

FREEDOM ENERGY, INC.

1433 - 17th St., Suite #300, Denver, Co 80202 303-292-2442

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

580' ~~17th St.~~ NW1/4, NW1/4, SEC. 17, T. 12 S., R. 24 E.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

23 MILES SOUTH OF BONANZA, UT

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. unit line, if any)

580

16. NO. OF ACRES IN LEASE

1,280

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

4900'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6212'

22. APPROX. DATE WORK WILL START*

MAY 15, 1996

23.

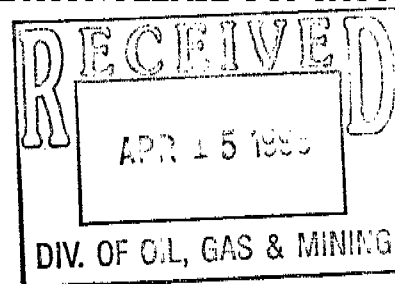
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	9 5/8	36#	300	TO SURFACE
7 7/8	4 1/2	11.6	T.D.	CMT TOP TO COVER THE OIL SHALE

OPERATOR REQUESTS PERMISSION TO DRILL THE SUBJECT WELL
PLEASE SEE THE ATTACHED 10 POINT AND THE 13 POINT SURFACE
USE PLAN.

IF YOU REQUIRE ADDITIONAL INFORMATION PLEASE CONTACT:

WILLIAM A. RYAN
350 S., 800 E.
VERNAL, UTAH
801-789-0968
801-823-6152



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED William A. Ryan TITLE Petroleum Engineer DATE April 8, 1996

(This space for Federal or State office use)

PERMIT NO.

43-047-32750

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

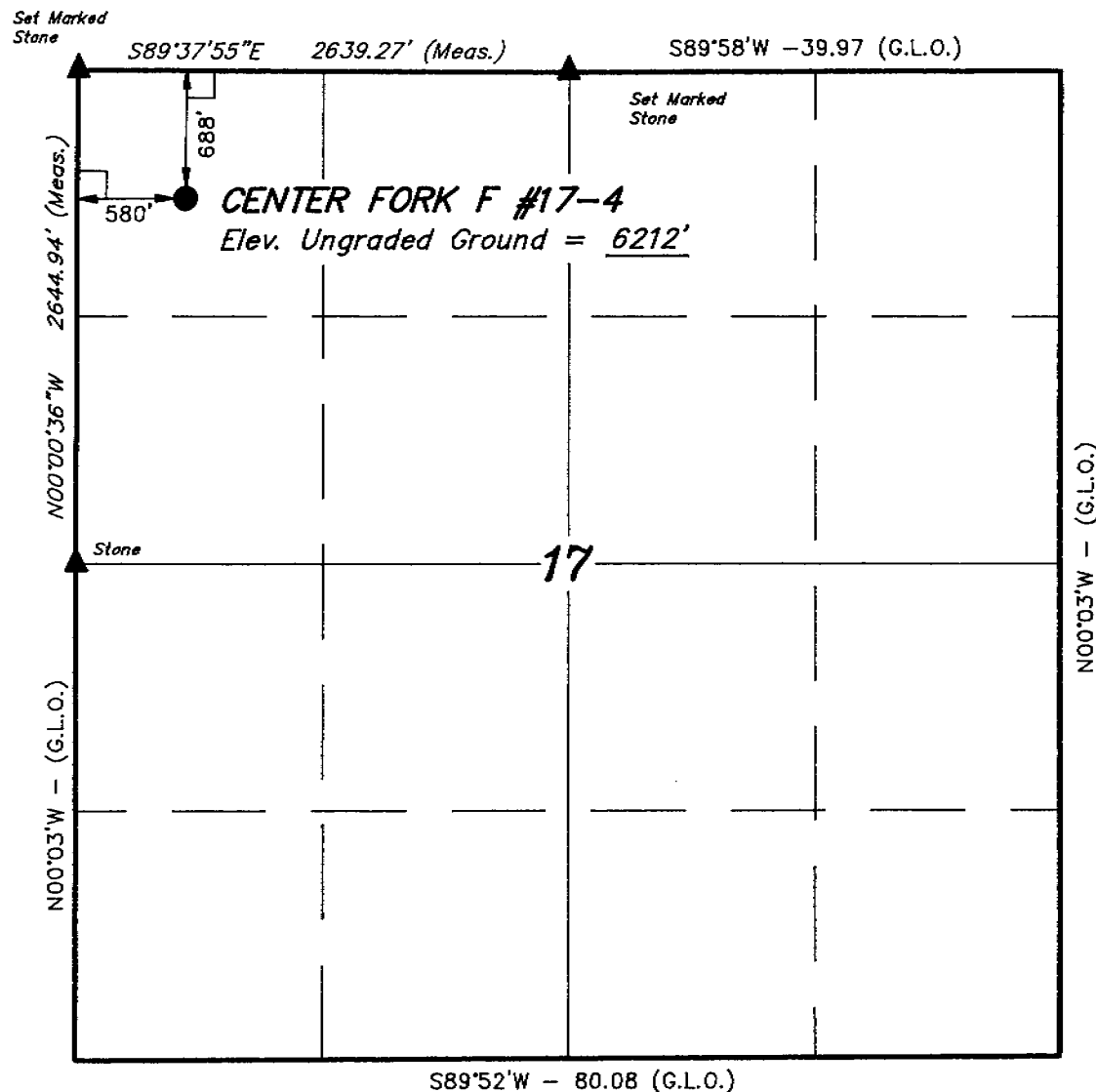
Arthur Engman

DATE

5/28/96

*See Instructions On Reverse Side

T12S, R24E, S.L.B.&M.



LEGEND:

- └ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NOTE:

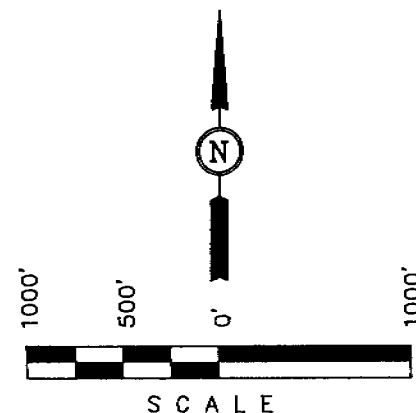
BASIS OF BEARINGS IS THE NORTH LINE OF SECTION 7, T12S, R24E, S.L.B.&M. WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR N89°59'E.

FREEDOM ENERGY, INC.

Well location, CENTER FORK F #17-4, located as shown in the NW 1/4 NW 1/4 of Section 17, T12S, R24E, S.L.B.&M. Uintah County Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED IN THE SW 1/4 OF SECTION 8, T12S, R24E, S.L.B.&M. TAKEN FROM THE ARCHY BENCH SE. QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6250 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 3-30-96	DATE DRAWN: 4-1-96
PARTY J.K. B.C. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE FREEDOM ENERGY, INC.	

ADDENDUM TO APD

Center Fork F #17-4
NW 1/4, NW 1/4, Sec. 17, T12S, R24E
Lease UTU-75206
Uintah County, Utah

HAZARDOUS MATERIALS DECLARATION

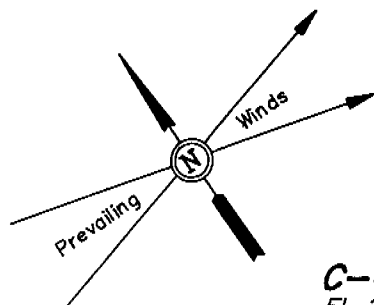
No chemical subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, stored, produced, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities will be used, produced, stored or transported, or disposed of in association with the drilling of this well.

LOCATION AND TYPE OF WATER SUPPLY

Water for drilling and cementing the subject well will be hauled by truck from Evacuation Creek under Dalbo's Temporary Application Number T69928.

LOCATION LAYOUT FOR

0.4
10.5



C-4.0'
El. 215.2'

C-2.0'
El. 213.2'

Proposed Access
Road

F-0.7
El. 210.5

Sta. 3+25

El. 216.1'
C-14.9'
(btm. pit)

C-2.1'

PIPE RACKS

C-0.7'
El. 211.9'

DOG HOUSE

120°

Sta. 1+50

F-5.9'
El. 205.3'

Approx.
Toe of
Fill Slope

Sta. 0+00

El. 221.3'
C-20.1'
(btm. pit)

C-4.6'
El. 215.8'

C-2.1'
El. 213.3'

F-2.1'
El. 209.1'

Elev. Ungraded Ground at Location Stake = **6211.9'**

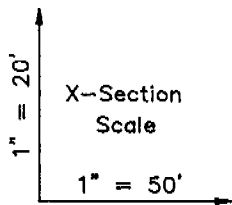
Elev. Graded Ground at Location Stake = 6211.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017

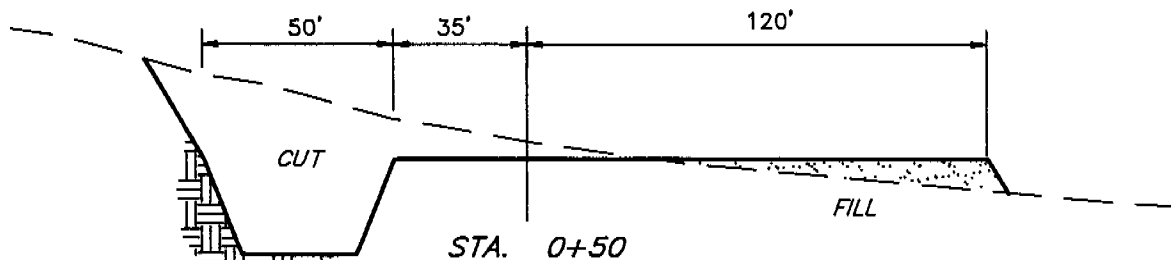
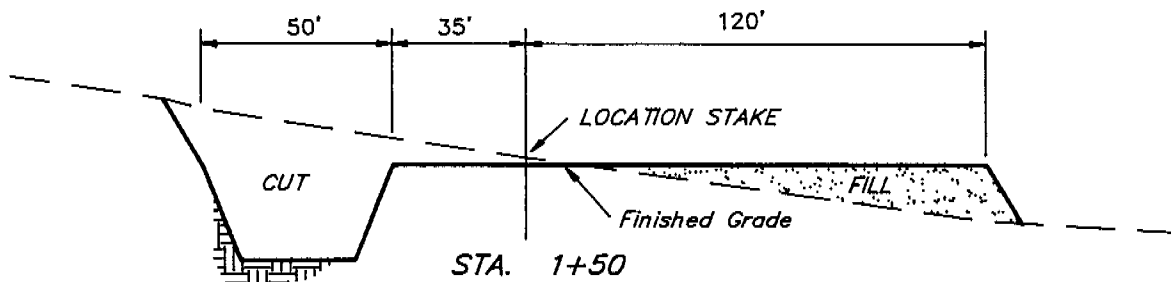
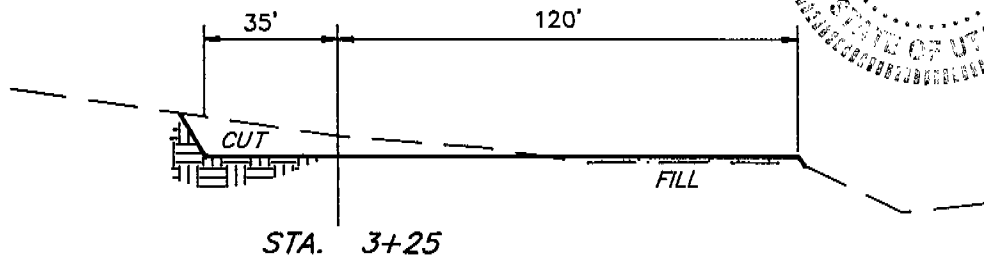
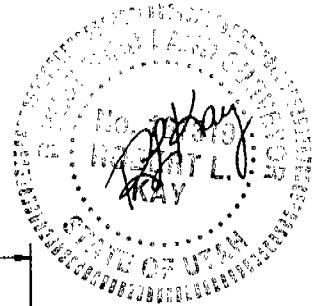
FREEDOM ENERGY, INC.

TYPICAL CROSS SECTIONS FOR

CENTER FORK F #17-4
SECTION 17, T12S, R24E, S.L.B.&M.
688' FNL 580' FWL

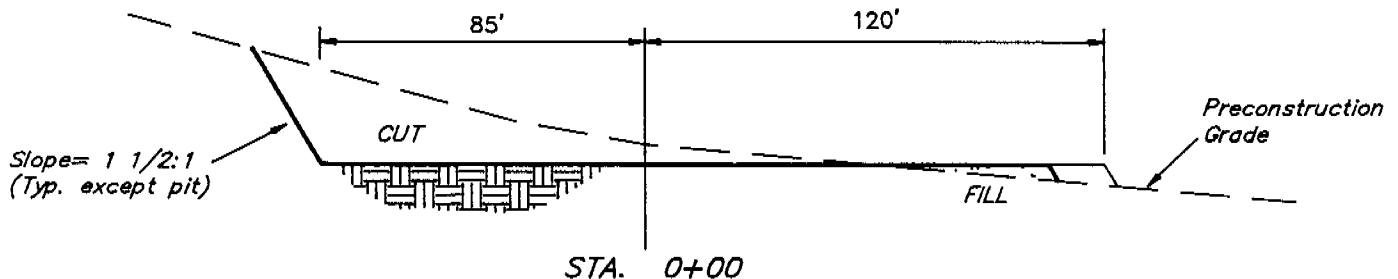


DATE: 4-1-96
Drawn By: D.R.B.



NOTE:

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

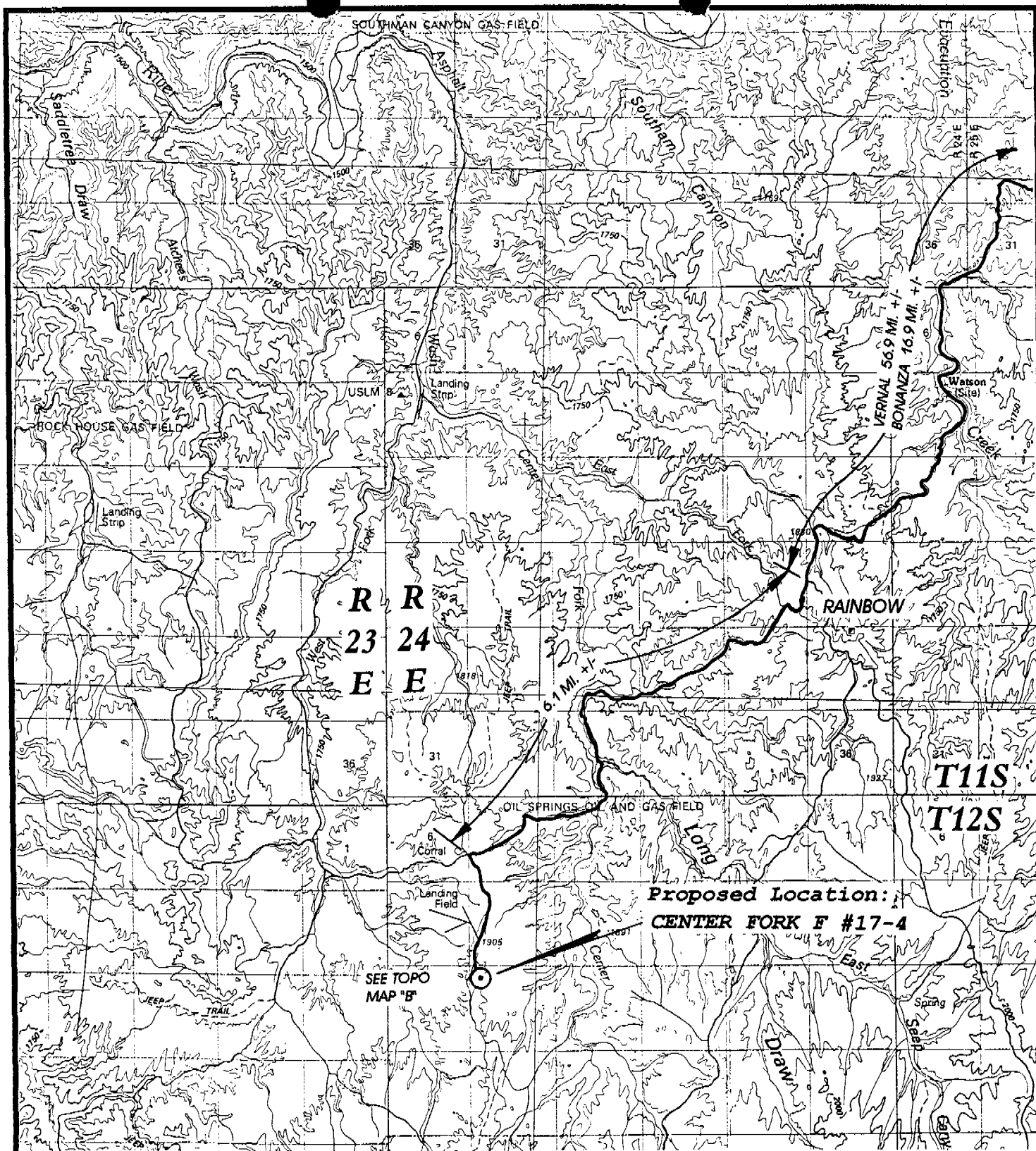


APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 1,100 Cu. Yds.
Remaining Location	= 5,550 Cu. Yds.
TOTAL CUT	= 6,650 CU.YDS.
FILL	= 2,850 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 3,650 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,360 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 1,290 Cu. Yds.

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UEIS

TOPOGRAPHIC MAP "A"

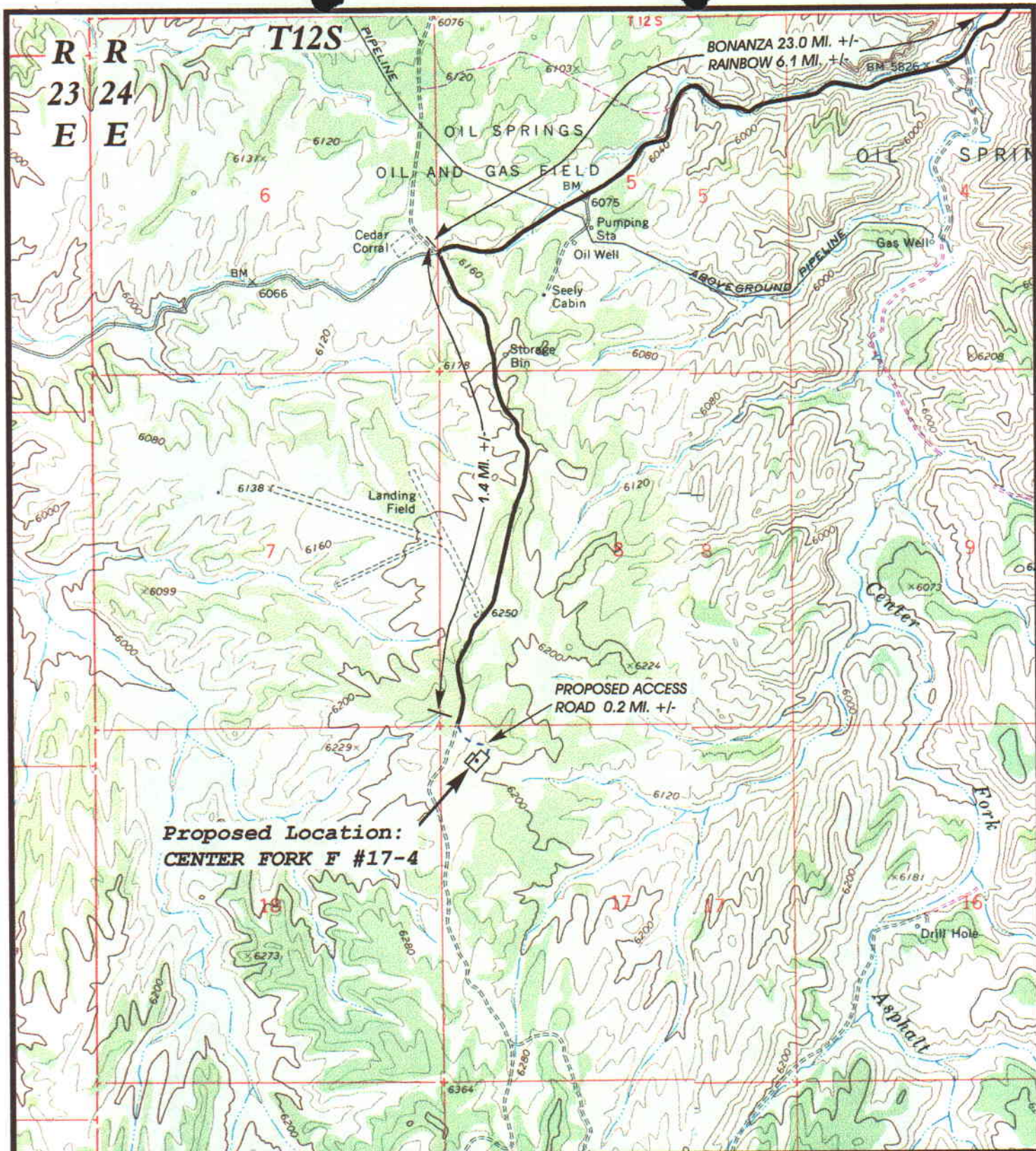
DATE: 4-1-96
Drawn by: C.B.T.

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FREEDOM ENERGY, INC.

CENTER FORK F #17-4
SECTION 17, T12S, R24E, S.L.B.&M.
688' FNL 580' FWL



UEIS

**TOPOGRAPHIC
MAP "B"**

**DATE: 4-1-96
Drawn by: C.B.T.**

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85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



SCALE: 1" = 2000'

FREEDOM ENERGY, INC.

**CENTER FORK F #17-4
SECTION 17, T12S, R24E, S.L.B.&M.
688' FNL 580' FWL**

Ten Point Plan

Freedom Energy, Inc.
Hanging Rock Unit
Hanging Rock Federal
F 7-4

Surface Location SE 1/4, NW 1/4, Section 12, T. 7 S., R. 24 E.

1. Surface Formation:

Green River

2. Estimated Formation Tops and Datum:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Green River	Surface	6,120' G.L.
Oil Shale	900	5,220
Wasatch	2,800	3,320
Mesaverde formation	4,700	1,420
T.D.	5100	1,020

3. Producing Formation Depth:

Formation objective include the Wasatch and its submembers.

4. Proposed Casing :

<u>Hole</u> <u>Size</u>	<u>Casing</u> <u>Size</u>	<u>Weight/Ft.</u>	<u>Grade</u> <u>& Tread</u>	<u>Setting</u> <u>Depth</u>	<u>Casing</u> <u>New/Used</u>
12 1/2	9 5/8	36	J-55/STC	300	New
7 7/8	4 1/2	11.6	J-55/STC	T.D.	Used/inspected

Cement Program:

<u>Casing Cement</u> <u>Size</u>	<u>Type</u>	<u>Cement</u> <u>Amount</u>	<u>Cement</u> <u>Yield</u>	<u>Cement</u> <u>Wieght</u>
9 5/8	Class "G" 2% Calcium 1/4 #/sk cello flake	200 sks.	1.18 cu. ft./sk.	15.6 lbs./gal.

<u>Casing Size</u>	<u>Cement Type</u>	<u>Cement Amount</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
4 1/2	Lead			
	Class "G"	200 sks	3.90 cu. ft./sk.	11.0 lbs./gal.
	3 % salt			
	16% gell			
	10# sk/Gilsonite			
	Tail	500 sks +/-	1.53 cu. ft./sk.	14.8 lbs./gal.
	Class "G"			
	10% salt			
	10% gypsum			
	2% WR15			
	.4 lbs/sk FL 25			

5. BOP and Pressure Containment Data:

The anticipated bottom hole pressure will be less than 3000 psi.

A 3000 psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 9 5/8" surface casing. The BOP system including the casing will be pressure tested to the minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

6. Mud Program:

<u>Interval</u>	<u>Mud weight lbs/gal.</u>	<u>Viscosity Sec./Qt.</u>	<u>Fluid Loss Ml/30 Mins.</u>	<u>Mud Type</u>
0-300	Air/Clear Water	----	No Control	Water/Gel
300-2000	Clear Water	----	No Control	Water/Gel
2000-T.D.	8.4-8.6	30	No Control	5% KCL

7. Auxiliary Equipment:

Upper Kelly cock, full opening stabbing valve, 2 1/2" choke manifold and pit level indicator.

8. Testing, Coring, Sampling and Logging:

- a) Test: None are anticipated.
- b) Coring: There is the possibility of sidewall coring.
- c) Sampling: Every 10' from 2000' to T.D.

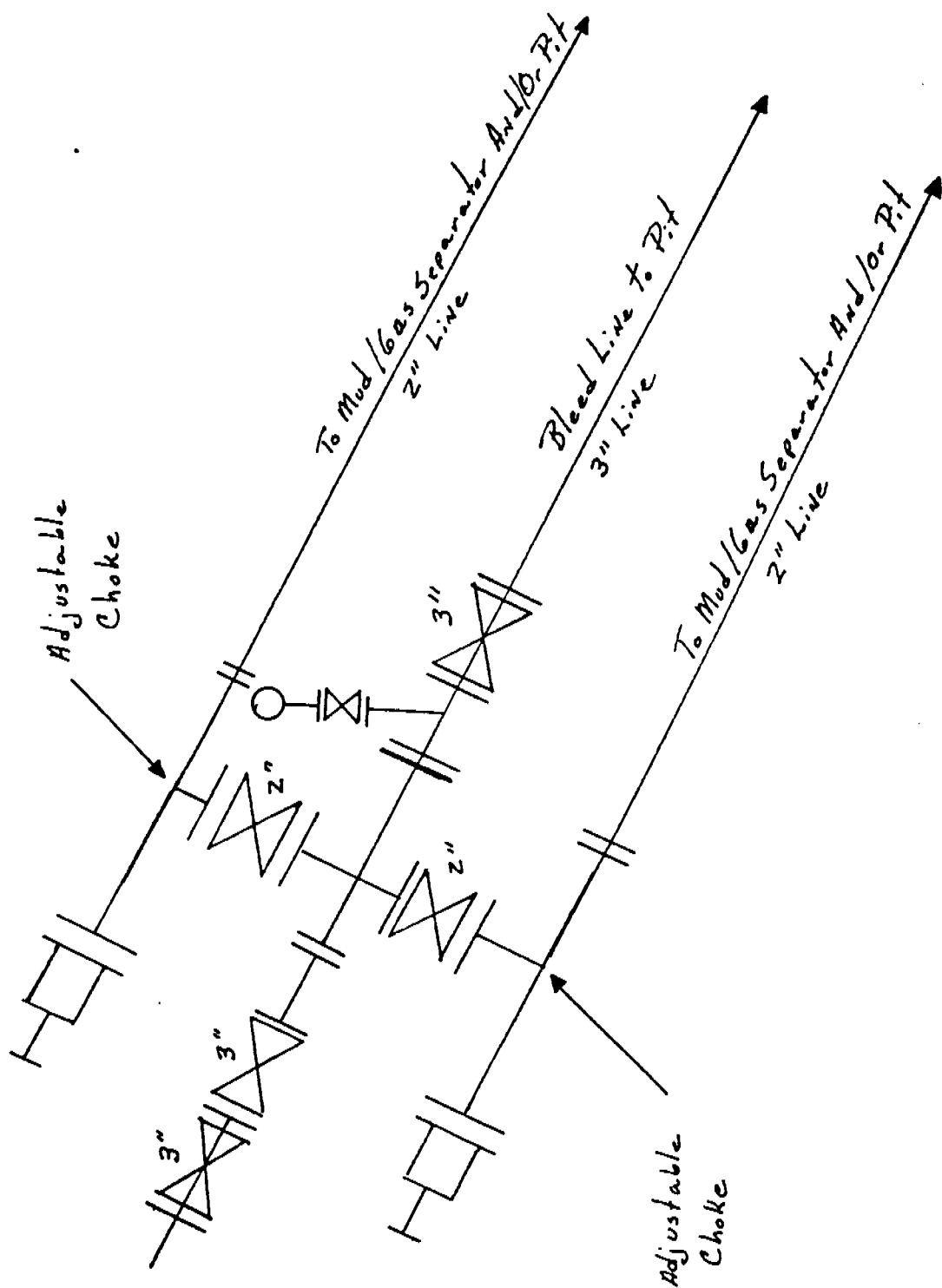
d)	Logging:	Type	Interval
		DLL/SFL W/GR and SP	T.D. to Surf. Csg
		FDC/CNL W/GR and CAL	T.D. to Surf. Csg

9. Abnormalities (including sour gas):

No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated in the Wasatch Formation. Other wells drilled in the area have not encountered over pressured zones or H₂S.

10. Drilling Schedule:

The anticipated starting date is May 15, 1996. Duration of operations expected to be 30 days.

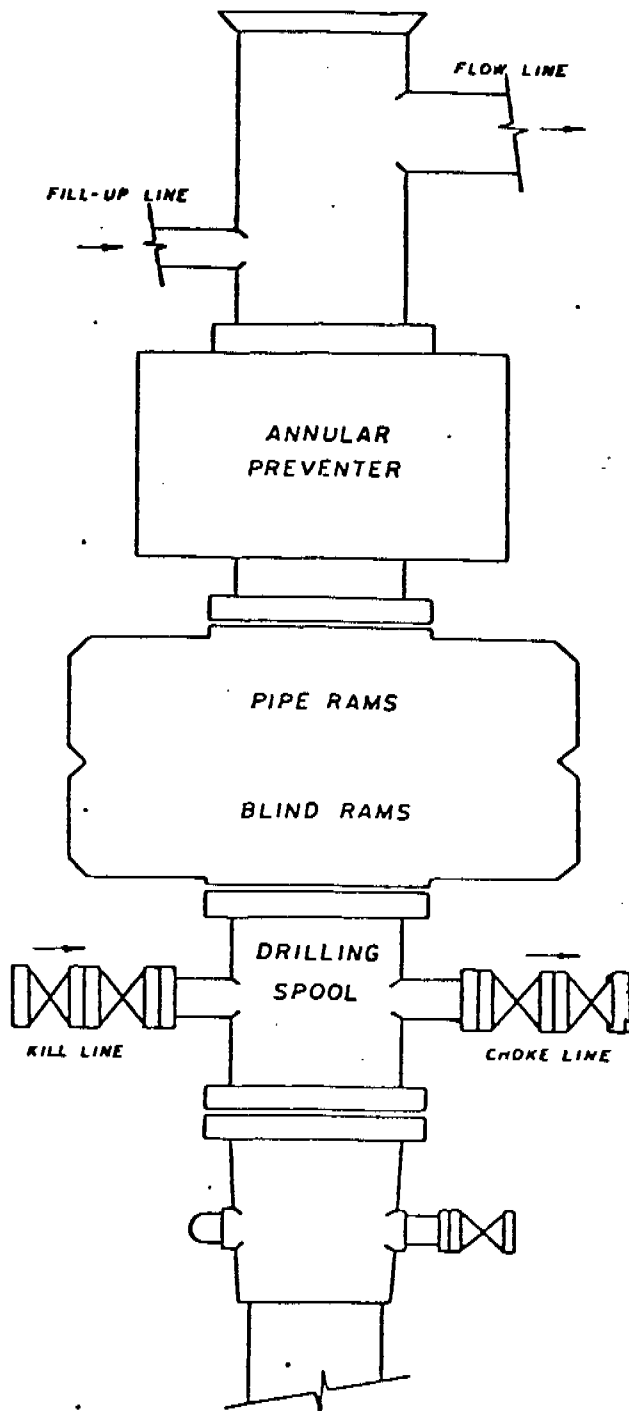


3,000 Psi Choke Manifold Equipment *

* Note: Configuration May Vary

Bill Ryan
6/10/90

BOP AND PRESSURE CONTAINMENT DATA



1. BOP equip shall consist of a double gate, hydraulically operated preventer with pipe & blind rams or two single ram type preventers, one equipped w/pipe rams, the other w/blind rams.
2. BOP's are to be well braced w/ hand controls extended clear of substructure.
3. Accumulator to provide closing pressure in excess of that required w/sufficient volume to operate all components.
4. Auxiliary equipment: Lower kelly cock, full opening stabbing valve, 2½" choke manifold, pit level indicator &/or flow sensors w/alarms.
5. All BOP equipment, auxiliary equipment stand pipe & valves & rotary hose to be tested to the rated pressure of the BOP's at time of installation & every 30 days thereafter. BOP's to be mechanically checked daily.
6. Modification of hook-up or testing procedure must be approved in writing on tour reports by wellsite representative.

SELF-CERTIFICATION STATEMENT

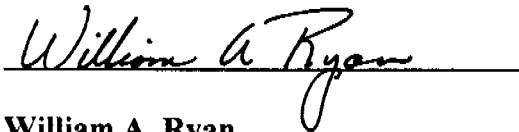
The following self-certification statement is provided per Federal requirements dated June 15, 1988.

Please be advised that Freedom Energy, Inc., is considered to be the operator of the following well.

Center Fork F #17-4
NW 1/4, NW 1/4, Section 17, T. 12 S., R. 24 E.
Lease U-75206
Uintah County, Utah

Freedom Energy, Inc., is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage is provided by Certificate of Deposit, held in Womens Bank, 821 17th Street, Denver, Colorado 80202; Account Number UT-1001

A handwritten signature in cursive script, reading "William A. Ryan", is written over a horizontal line.

William A. Ryan
Agent
Rocky Mountain Consulting
350 S. 800 E.
Vernal UT 84078
801-789-0968
801-823-6152

FREEDOM ENERGY, INC.

13 POINT SURFACE USE PLAN

FOR WELL

CENTER FORK F

17-4

LOCATED IN

NW 1/4, NW 1/4

SECTION 17, T. 12 S., R. 24 E., U.S.B.&M.

UINTAH COUNTY, UTAH

LEASE NUMBER: UTU-75206

SURFACE OWNERSHIP: FEDERAL

1. Existing Roads

To reach the Freedom Energy Inc., Center Fork F #17-4 well location, in Section 17, T. 12 S., R. 24 E., from Bonanza, Utah:

Starting in Bonanza, Utah proceed south on the paved road for 4 miles. Turn south (left) on the Book cliffs road (dirt road). Proceed south 3.9 miles to the Greeks Corrals. Turn west (right) at the fork in the road. Proceed 8.3 miles to the Asphalt Wash sign. Stay to the south (left) of the sign. Proceed .7 miles to the Rainbow sign. Stay to the west (right) of the sign. This is also called the Kings Wells road. Proceed 6.1 miles to the Cedar Corrals. Turn south (left) and proceed 1.4 miles, follow the flagging to the proposed location.

All roads to the proposed location are State or County maintained roads.

Please see the attached map for additional details.

2. Planned access road

Approximately 1000 feet of new road construction will be required.

The proposed road has been staked.

The road will be built to the following standards:

A) Approximate length	1000 ft..
B) Right of Way width	30 ft.
C) Running surface	18 ft.
D) Surfacing material	Native soil
E) Maximum grade	8%
F) Fence crossing	None
G) Culvert	None
H) Turnouts	None
I) Major cuts and fills	None
J) Road flagged	Yes
K) Access road surface ownership	Federal

Newly constructed roads will be built using native soils from borrow pits on either or both sides of the road. The road will be crowned and ditched. Ditches will be constructed along either side where it is determined necessary to handle run off and minimize the possibility of erosion.

Please see the attached location plat for additional details.

A right of way will be required. Access from the Uintah County road to the lease boundry will require a right of way. The lease boundary is on the north side of Section 17, T. 12 S., R 24 E. The majority of the right of way will also be used to access a well currently being permitted by Freedom Energy Inc. The well is the Hanging Rock Fed. F #7-6 in Section 7, T. 12 S., R 24 E.

Access from the county road will be via an existing 2 track road. The operator proposes to follow the 2 track for 1.4 miles. The 2 track will require minimal upgrading.

All travel will be confined to existing access road right of ways.

Access road and surface disturbing activities will conform to standards outlined in the USGS publication (1978) surface operating standards for oil and gas development.

3. Location of existing wells

The following wells are located within one mile radius of the location site.

A) Producing wells	None
B) Water wells	None
C) Abandoned wells	None
D) Temporarily abandoned wells	None
E) Disposal wells	None
F) Drilling wells	None
G) Shut in wells	None.
H) Injection wells	None
I) Monitoring or observation wells	None

Please see the attached map for additional details.

4. Location of tank batteries, production facilities, and production gathering service lines.

All production facilities will be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted a desert brown color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is Desert Brown (10 YR 6/4).

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

The operator will adhere to all site security guidelines and regulations identified in 43 cfr 3126.7.

All off lease storage, off lease measurement, comingling on lease or off lease, of production, will have prior written approval from the authorized officer.

A proposed surface gas line has been staked on the ground (blue flagging). The proposed pipe line is approximately 1.4 miles long. The line will require an off lease right of way. The surface line will be strung on the upgraded 2 track, welded in place and boomed off the side of the road. The line will end at Freedom Energy Inc. 4" gathering line in Sec. 6, T. 12 S., R. 24 E. There will be no additional surface disturbances required for the installation of a gathering line. The line will be a 4" steel line.

The gas meter run will be located within 500' of the well head. The gas line will be buried or anchored down from the well head to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The authorized officer will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration report will be submitted to the BLM's Vernal District office. All measurement facilities will conform with API and AGA standards for gas and liquid hydrocarbon measurement.

5. Location and type of water supply

Water for drilling and cementing the subject well will be hauled by truck from Evacuation Creek. Water for completion will come from the same supply or Vernal City.

6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravels or pit lining material will be obtained from private sources.

7. Methods for handling waste disposal

A) Pit construction and liners:

The reserve pit will be approximately 10 ft. deep and most of the depth shall be below the surface of the existing ground. Please see the attached plat for details.

The reserve pit will not be lined.

The reserve pit will not be used to store water for drilling. A semi-closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90 day period an application for approval for a permanent disposal method and location will be submitted to the authorized officer.

C) Garbage:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized land fill location.

D) Sewage:

A portable chemical toilet will be supplied for human waste.

E) Site clean-up

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

8. Ancillary facilities

There are no ancillary facilities planned at this time and none are foreseen for the future.

9. Well-site layout

Location dimensions are as follow:

A)	Pad length	325 ft.
B)	Pad width	155 ft.
C)	Pit depth	10 ft.
D)	Pit length	180 ft.
E)	Pit width	50 ft.
F)	Max cut	20.1 ft.
G)	Max fill	2.1 ft.
H)	Total cut yds	6,650 cu. yds.
I)	Pit location	west side
J)	Top soil location	east side
K)	Access road location	north side
L)	Flare pit	north west corner

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- A) Thirty nine inch net wire shall be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- B) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C) Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

D) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.

E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

10. Plans for restoration of the surface

Prior to construction of the location, the top 6 inches of soil material will be stripped and stockpiled. This will amount to approximately 1,000 cubic yards of material. Placement of the top soil is noted on the attached location plat. When all drilling and completion activities have been completed the unused portion of the location (the area outside the dead men.) will be recontoured and the topsoil spread over the disturbed area.

The dirt contractor will be provided with an approved copy of the surface use plan prior to construction activities.

Any drainage rerouted during the construction activities shall be restored to its original line of flow or as near as possible.

All disturbed areas will be recontoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rain fall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

A) Seeding dates:

After September 15, and before the ground freezes.

Seed will be broadcast or drilled at the time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded

area to assure seed coverage and the seed mixture will be proportionately larger (double the lbs. per acre).

At such time as the well is plugged and abandoned the operator will submit a surface reclamation plan to the surface management agency for prescribed seed mixture and reseeding requirements.

11. Surface ownership:

Federal

12. Other information

A) Vegetation:

The vegetation coverage is slight. The majority of the existing vegetation consists of sage brush. Rabbit brush, bitter brush and indian rice grass are also found on the location.

B) Dwellings:

There are no dwellings, or other facilities within a one mile radius of the location.

C) Archeology:

The location has been surveyed and there are no archaeological, historical, or cultural sites near the proposed site. Please see the attached archaeological clearance map.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations which would afflict such sites will be suspended and the discovery reported promptly to the surface management agency.

D) Water:

The nearest water is in the bottom of Asphalt Wash located 2.5 miles to the north.

E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

F) Notification:

- a) Location construction
At least forty eight (48) hours prior to construction of location and access roads
- b) Location completion
Prior to moving on the drilling rig.
- c) Spud notice
At least twenty-four (24) hours prior to spudding the well.
- d) Casing string and cementing
At least twenty-four (24) hours prior to running casing and cementing all casing strings.
- e) BOP and related equipment tests
At least twenty-four (24) hours prior to initialing pressure tests.
- f) First production notice
With in five (5) business days after the new well begins, or production resumes after well has been off production for more than ninety 90 days.

H) Flare pit

The flare pit will be located a minimum of 30 feet from the reserve pit fence and 100 feet from the bore hole on the south and west side of the location, between points 5 and 6 on the location plat. All fluids will be removed from the pit within 48 hours of occurrence.

12. Lessees or Operator's representative and certification

A) Representative

Name:	William A. Ryan
Address:	Rocky Mountain Consulting 350 South, 800 East Vernal, Utah 84078
Telephone:	
Office	801-789-0968
Fax	801-789-0970
Cellular	801-823-6152

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, the applicable laws, regulations, and any applicable notices to lessees.

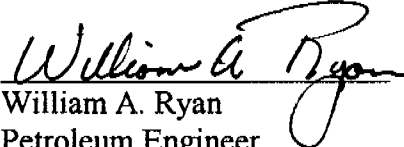
The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

This drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

B) Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route, that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be performed by Freedom Energy, Inc. and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

Date April 10, 1996


William A. Ryan
Petroleum Engineer
Rocky Mountain Consulting

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/15/96

API NO. ASSIGNED: 43-047-32750

WELL NAME: CENTER FORK F 17-4
OPERATOR: FREEDOM ENERGY INC (N3285)

PROPOSED LOCATION:

NWNW 17 - T12S - R24E
SURFACE: 0580-FWL-0688-FNL
BOTTOM: 0580-FWL-0688-FNL
UINTAH COUNTY
FIELD (1) UNDESIGNATED (002)

LEASE TYPE: FED
LEASE NUMBER: UTU-75206

PROPOSED PRODUCING FORMATION: MSVD

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Federal ☒ State ☐ Fee ☐
(Number UT-1001)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
(Number T 69928)
☒ RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING:

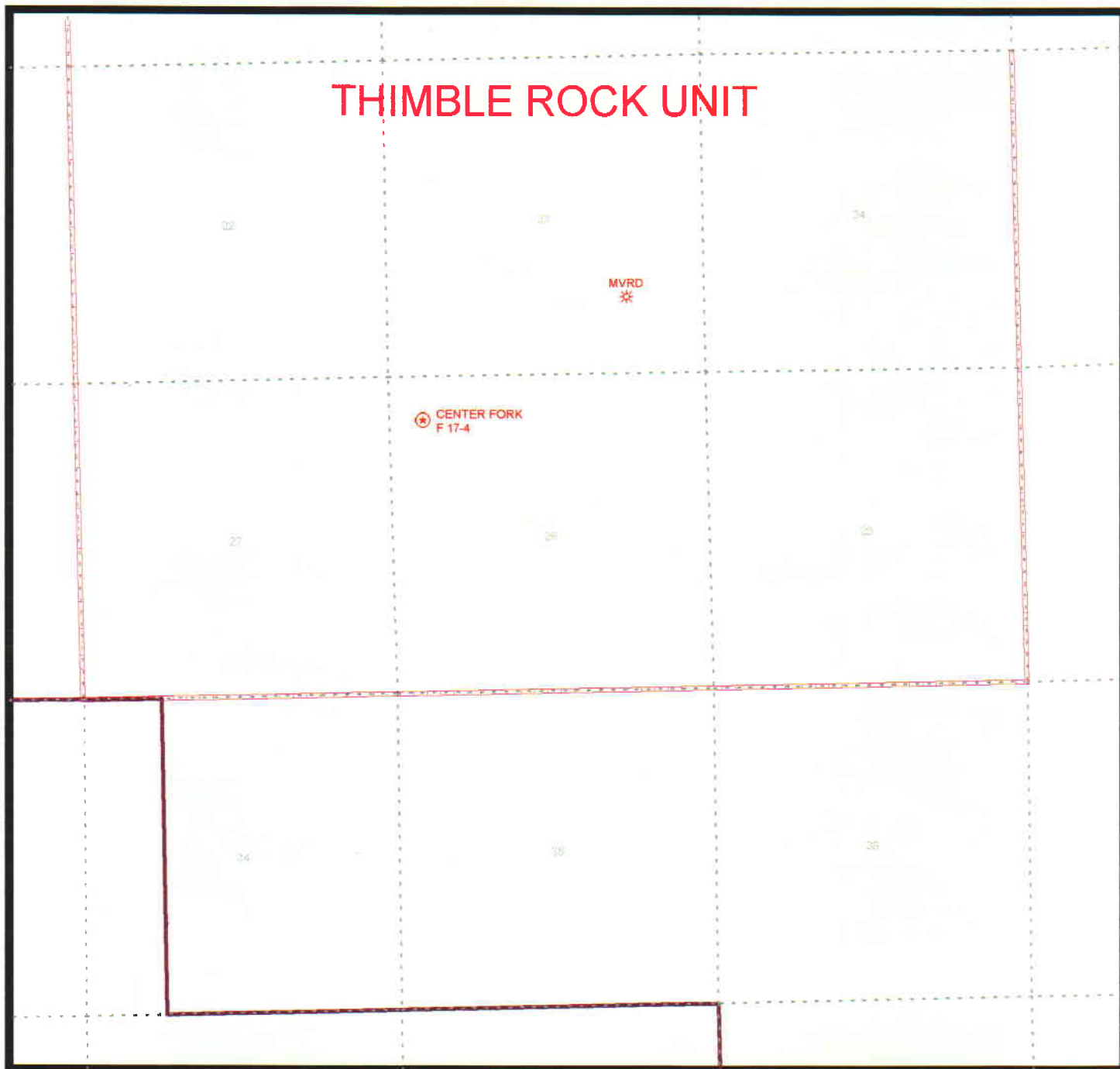
☒ R649-2-3. Unit: THIMBLE ROCK
____ R649-3-2. General.
____ R649-3-3. Exception.
____ Drilling Unit.
____ Board Cause no: _____
____ Date: _____

COMMENTS: NO WATER USE PERMIT WAS SPECIFIED

STIPULATIONS: A WATER USE PERMIT NO. OR SPECIFIED

COMMERCIAL SOURCE WILL BE PROVIDED BY SUNDAY
NOTICE PRIOR TO COMMENCEMENT OF DRILLING
OPERATIONS.

FREEDOM ENERGY
HANGING ROCK UNIT
SEC. 26, T11S, R24E
UINTAH COUNTY, UAC R649-3-2



PREPARED:
DATE: 15-APR-96

SELF-CERTIFICATION STATEMENT

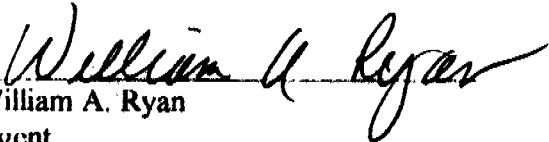
The following self-certification statement is provided per Federal requirements dated June 15, 1988.

Please be advised that Freedom Energy, Inc., is considered to be the operator of the following well.

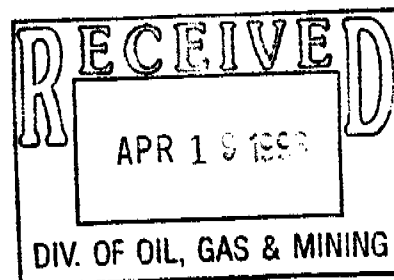
Center Fork F #17-4
NW 1/4, NW 1/4, Sec. 17, T12S, R24E
Lease UTU-75206
Uintah County, Utah

Freedom Energy, Inc., is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage is provided by Certificate of Deposit, BLM Bond #UT-1030.


William A. Ryan
Agent
Rocky Mountain Consulting
350 South, 800 East
Vernal, UT 84078

801 789-0968
801 823-6152





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

May 28, 1996

Freedom Energy, Inc.
1433 17th Street Suite 300
Denver, Colorado 80202

Re: Center Fork F 17-4 Well, 688' FNL, 580' FWL, NW NW, Sec. 17,
T. 12 S., R. 24 E., Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-32750.

Sincerely,

R. J. Firth
Associate Director

lwp

Enclosures

cc: Uintah County Assessor

Bureau of Land Management, Vernal District Office

WAPD

Operator: Freedom Energy, Inc.
Well Name & Number: Center Fork F 17-4
API Number: 43-047-32750
Lease: UTU-75206
Location: NW NW Sec. 17 T. 12 S. R. 24 E.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: FREEDOM ENERGY INC	Well Name: CENTER FORK F 17-4
Project ID: 43-047-32750	Location: SEC. 17 - T12S - R24E

Design Parameters:

Mud weight (8.60 ppg) : 0.447 psi/ft
 Shut in surface pressure : 1943 psi
 Internal gradient (burst) : 0.050 psi/ft
 Annular gradient (burst) : 0.000 psi/ft
 Tensile load is determined using air weight
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125
 Burst : 1.00
 8 Round : 1.80 (J)
 Buttress : 1.60 (J)
 Other : 1.50 (J)
 Body Yield : 1.50 (B)

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost	
1	4,900	4.500	11.60	J-55	ST&C	4,900	3.875		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2189	4960	2.266	2189	5350	2.44	56.84	154	2.71 J

Prepared by : MATTHEWS, Salt Lake City, Utah
 Date : 05-28-1996
 Remarks :

Minimum segment length for the 4,900 foot well is 1,500 feet.
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 108°F (Surface 74°F , BHT 143°F & temp. gradient 1.400°/100 ft.)
 String type: Production
 The mud gradient and bottom hole pressures (for burst) are 0.447 psi/ft and 2,189 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.
 Costs for this design are based on a 1987 pricing model. (Version 1.07)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☐ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☒

2. NAME OF OPERATOR

FREEDOM ENERGY, INC.

1433 - 17th St., Suite #300, Denver, Co 80202 303-292-2442

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

580' ENE, 688' FWL, NW1/4, NW1/4, SEC. 17, T. 12 S., R. 24 E.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

23 MILES SOUTH OF BONANZA, UT

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 580
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE
1,280

17. NO. OF LOTS ASSIGNED
TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
4900'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6212'

22. APPROX. DATE WORK WILL START*
MAY 15, 1996

23.

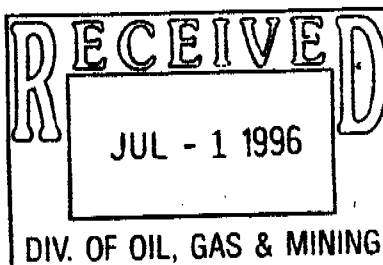
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	9 5/8	36#	300	TO SURFACE
7-7/8	4 1/2	11.6	T.D.	CMT TOP TO COVER THE OIL SHALE

OPERATOR REQUESTS PERMISSION TO DRILL THE SUBJECT WELL
PLEASE SEE THE ATTACHED 10 POINT AND THE 13 POINT SURFACE
USE PLAN.

IF YOU REQUIRE ADDITIONAL INFORMATION PLEASE CONTACT:

WILLIAM A. RYAN
350 S., 800 E.
VERNAL, UTAH
801-789-0968
801-823-6152



RECEIVED
APR 12 1996

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. William A. Ryan

SIGNED

William A. Ryan

TITLE

Petroleum Engineer

April 8, 1996

DATE

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ASSISTANT DISTRICT
MANAGER MINERALS

DATE

JUN 6 1996

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

U+080-6m-101
DOG-M

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Freedom Energy, Inc.

Well Name & Number: Center Fork F 17-4

API Number: 43-047-32750

Lease Number: U - 75206

Location: NWNW Sec. 17 T.12S R. 24E

NOTIFICATION REQUIREMENTS

- | | | |
|---------------------------------|---|---|
| Location Construction | - | at least forty-eight (48) hours prior to construction of location and access roads. |
| Location Completion | - | prior to moving on the drilling rig. |
| Spud Notice | - | at least twenty-four (24) hours prior to spudding the well. |
| Casing String and Cementing | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings. |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests. |
| First Production Notice | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

NOTE - The lease for this proposed well is in it's extended term, therefore, production in paying quantities must be established from the lease hold prior to November 21, 1996.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 3M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale zone, identified at 727 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to ± 527 ft., and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office. A Sonic log will be run from TD to a minimum of 200 ft above the top of the Mahogany oil shale.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted on initial meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

The APD approval is valid only until November 21, 1996 unless production is established from another well within the lease prior to that date. If production in paying quantities is established prior to that date then the APD is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period, if production in paying quantities has been established from another well from within the lease hold.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

Jerry Kenczka (801) 789-1190
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE USE PLAN OF OPERATIONS
Conditions of Approval (COAs)

Other Additional Information:

a. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate

If the operator wishes, at any time, to relocate activities to avoid expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

b. The operator will control noxious weeds along rights-of -way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered lands it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or hazardous chemicals.

c. The following conditions apply:

When the pad is built for well 17-4, Freedom Energy shall also construct an erosion control pond about 600 feet East of the well. This could also be described as about 400 feet east of where the access road enters the pad.

The proposed surface flowline will follow existing roads north to it's tie in with the gathering line in the SE of Section 6. Road crossings will be placed as needed to avoid existing fences and the cultural resource site 42Un2278 which is described in the survey by Sagebrush Archaeological Consultants.

The flowline will be about 9000 feet in length.

CONDITIONS OF APPROVAL FOR THE SURFACE GAS LINE

1. No blading will be allowed on surface pipelines unless the Vernal Field Office minerals staff are consulted and approval has been obtained prior to the blading.
2. Greg Darlington of the Vernal Office Minerals Staff will be notified 24 hours prior to the start of construction.
3. Surface lines will be either black or brown in color. The color of the pipeline should be similar to the color of the well pad facilities in the vicinity.
4. Pipeline construction will not occur during periods of wet soil conditions. Rutting can create severe soil erosion problems, especially on steep slopes. Operations should cease until soils are dry or frozen to avoid erosion rutting and related runoff problems.
5. The surface gas line shall not block or change the course of existing drainages. Drainage crossings will be designed to prevent damage to the flowline during periods of high seasonal and storm runoff in the area affected.
6. If cultural resources are found during construction, all work which could impact these resources will stop and the Vernal Field Office will be notified.
7. Vehicle use will be restricted to the pipeline route in off road areas. It will be authorized there as needed for construction and maintenance and operations on the lease.
8. The metering of all gas production will be done in accordance with Onshore Order No. 5.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: FREEDOM ENERGY

Well Name: CENTER FORK F 17-4

Api No. 43-047-32750

Section 17 Township 12S Range 24E County UINTAH

Drilling Contractor NABORS

Rig #: 8

SPUDDED:

Date: 10/10/96

Time:

How: ROTARY

Drilling will commence:

Reported by: PAUL FRANKS

Telephone #:

Date: 10/8/96 Signed: JLT

3270 ✓

FREEDOM ENERGY, INC.

**CENTER FORK F 17-4
580' FNL, 688' FWL
NW/NW-SEC.17-T12S-R24E
UINTAH COUNTY, UTAH**

**API # 43-047-32750
LEASE # UTU-75206
GL: 6212'
KB: 6224'**

DIRECTIONS: SOUTH OF VERNAL ON HWY 45, 40 MILES TO BLM (END OF PAVEMENT SIGN). TURN LEFT, 3.8 MILES TO "Y" IN ROAD. BLM (ATCHEE RIDGE, RAINBOW SIGN). RIGHT 8.2 MILES TO "Y" IN ROAD. BLM (ASPHALT DRAW ALLOTMENT SIGN), LEFT .5 MILES TO "Y" IN ROAD. BLM (RAINBOW, KINGS WELL SIGN), RIGHT 6.8 MILES, SOUTH 1.5 MILES, LEFT OFF ROAD TO LOCATION.

09-08-96 MIRU Stubbs and Stubbs. Build location. Had to blast north end of reserve pit.

09-14-96 Spud with Bill Jr's. rathole.

09-15-96 Drill 320' 12-1/4" hole. Run casing. Guide shoe, 8 jts. - 9-5/8"-40#-STC-ncw, set @ 311' G.L. Ran 5 centralizers every other jt. Baffle first collar above shoe. MIRU B.J. Services. Pump 5 bbls. mud flush, 20 bbls. H₂O, 183 sks. class G, 1/4# per sk. cello-flakes, 2% CaCL Circ. 12 bbls. slurry to pit. Good returns. Float did not hold. S.I.

09-24-96 Dig cellar. Install 11"-3m X 9-5/8" wellhead.

09-26-96 MIRU Nabors Rig # 908.. Have to move crews to another rig. Will not spud at this time.

10-11-96 DRLG @ 779'. 451' in 8.5 hrs. R.P.M.-55/100; P.P.-950; W.O.B.-12M; Drlg. with water. Bit # 1: 7-7/8", Reed, HP53A, In-328'. Surveys: 652'- 1.75 deg. Drlg.-8.5; Trip-2; Survey-5; Drill cement plug-2; test B.O.P.-6; P.U. Tools-2; R.U.- 3 BHA: Bit, M.M., 22 D.C.- 677.57' Drill out surface @ 7:00 P.M. 10-10-96

10-12-96 DRLG @ 2602'. 1823' in 20.5 hrs. R.P.M.- 55/100; P.P.- 950/1200; W.O.B.- 35M; Visc.- 45; Wt.- 8.9#; F.L.- 13.6; F.C.- 2/32; Ph.- 9; P.V.- 13; Y.P.- 18; Gels-Init-8; 10 min.- 15; T.H.- 120; Surveys: 1181'- 2 deg.; 1708'- 2.75 deg.; 2170'- 3 deg. Drlg.-20.5 Surveys-1.5; R.S.- .5; R.R.- 1.5

10-13-96 DRLG @ 3511'. 909' in 22.5 hrs. R.P.M.- 55/100; P.P.- 1050/1250; W.O.B.- 35M; Visc.- 41; Wt.- 9.1#; F.L.- 9.6; F.C.- 1/32; Ph.-9.5; Chl.- 200 ppm.; P.V.- 12; Y.P.- 6; Gels-Init-1; 10 min.- 4; Solids- 5.6%; T.H.- 240; Surveys: 2756'- 2 deg.; 3253'- 2.5 deg.; Drlg.- 22.5; Cumm. Drlg.- 51.5; Surveys- 1; R.S. .5

10-14-96 DRLG @ 3943'. 432' last 24 hrs. R.P.M.- 80; P.P.-1050psi.; W.O.B.-42M; Visc.-43; Wt.-9.1; F.L.-8; F.C.-1/32; Ph.-9; Chl.- 200ppm; P.V.-19; Y.P.-22; Gels-Init.-2; 10min.-8; T.H.-80; Solids-4.7%; T.H.-80; Surveys: 3253'-2.5deg.; 3553'-3.25 deg. Drlg.-16.5 Trip-5; W&R-1; R.R.-.5; P.U. Tools-1; T.O.O.H. Lay down mud motor. P.U. 2 drill collars. T.I. H. with bit #1. Strap out. 3' down hole correction. Recorded 600u. trip gas.

10-15-96 Making connection @ 4051'. Pulled kelly to bushings, pipe stuck @ 4007'. Could not rotate, circ., or move up or down. Work pipe for 7 hrs. MIRU Dia-Log. Run free-point. Pipe stuck @ bit. Perf. 2 shots in bit sub. Work fish for 3 hrs. Started moving some fluid around fish. R.U. surface jars. Jar for 1.5 hrs. Move fish down hole. Circ. and condition hole. Work through tight spot. (4006'-3970'). Tight spot @ 3780'. T.O.O.H. Made 108' in 3 hrs. Cumm. hrs.- 71; Drlg.- 3; Trip- 4; Work stuck pipe- 17;

10-16-96 Drlg. @ 4575'. 524' in 14.5 hrs. R.P.M.-55/100; W.O.B.-35m; Visc.- 43; Wt.- 9.3; F.C.- 1/32; Ph.- 9; Chl.- 200; P.V.- 18; Y.P.- 12; Gels.- Init. 2: 10 min.- 6; T.H.- 80; Water- 93%; Solids- 7%. Surveys: 4075' - 2 deg.
 Bit # 1: c54319, 7-7/8, Reed, HP53A, 14/14/15, In: 328; Out-4051', 3823' in 71 hrs.
 Bit # 2: C 54824, 7-7/8, Reed, HP 53A, 15/15/16, In: 4051' Out- 4152', 101' in 3 hrs.
 Bit #3: H17723, 7-7/8, Smith, F3H, 15/15/16, In: 4152'. Drlg- 14.5; Trip- 6.5;
 Survey- .5; W&R- 1; PU Tools- 1.5; up. T.O.O.H. P.U. Bit #3.

10-17-96 Logging. 175' in 6.5 hrs. Cumm. Drlg.- 92 hrs.
 Bit # 3: LLH7723, 7-7/8", STC, F3H, 15/15/16, In- 4152'. Out- 4750', 598' in 11.5 hrs.
 T.D. @ 4750'. Condition hole. T.O.O.H. MIRU Schlumberger. Stack out @ 3844'.
 Lay down tool. T.I.H. with drill pipe. Push boot to bottom. Circ. 1 hr. Short trip
 10 stds. T.O.O.H. R. U. Schlumberger @ 4:00 a.m. L.T.D. 4748'. Run Array Induction,
 with gamma ray and CNDL. Done logging @ 8:00 A. M.
 Drlg.: 6.5, Trips- 7.5; Logging- 7.5; C&C- 2.5

10-18-96 CMR tool would not work. Hotshot tool from Casper. 9 hrs. wait on tools.
 Start in hole with CMR @ 5:00p.m. Out of hole @ 11:30p.m. T.H. Circ. 1 hr. LDDP.
 Trip- 2.5; Log- 5.5; Circ.- 2; PU. Tools- 2; Wait on logging tool- 9;

10-19-96 LDDP. Run casing. Bump plug @ 1:30p.m. Float did not hold. Shut in. Slips set
 3:00p.m. Rig Release: 8:00p.m.

COMPLETION : CENTER FORK F 17-4

10-19-96 Run casing. 62 jts. 4-1/2", 11.6 #, 8rd., I-70, new, tested to 6200psi.; Ran 47 jts.
 4-1/2", 11.6#, 8rd., J-55, new, tested to 4900 psi. Ran guide shoe, 1 jt., float collar,
 with 20 centrizers. Total: 109 jts. landed @ 4739.84' k.b. P.BTD: 4696.07' k.b. MIRU
 B.J. Services. Pump 20 bbls H2O. Cement with 250 sks. class G, 16% gcl., 3% salt,
 10#/sk. gilsonite. Yield- 3.92 cu. ft./sk. Pump 385 sks. class G, 10% gypsum, 4% FL-25,
 2% R-3, 10% salt. Yield- 1.53 cu.ft./sk. Disp. with 72 bbls. 2% KCL. Bump plug to 2500 psi.
 @ 1:30 p.m. Float did not hold. Rebump plug. Float did not hold. Rebump plug. S.I.
 @ 400 psi. above circ. pressure. Circ. approx. 20 bbls. slurry to pit. Good returns. Set. slips.
 Transfer 7 jts. 4-1/2", J-55 to Toby Fed. F 6-15. (307.90') R.R. 8:00p.m. 10-19-96

FREEDOM ENERGY, INC.

**CENTER FORK F 17-4
580' FNL, 688' FWL
NW/NW-SEC.17-T12S-R24E
UINTAH COUNTY, UTAH**

**API # 43-047-32750
Lease# UTU-75206
GL: 6212'
KB: 6224'**

DIRECTIONS: SOUTH OF VERNAL ON HWY 45, 40 MILES TO BLM (END OF PAVEMENT SIGN). TURN LEFT, 3.8 MILES TO "Y" IN ROAD. BLM (ATCHEE RIDGE, RAINBOW SIGN), RIGHT 8.2 MILES TO "Y" IN ROAD. BLM (ASPHALT DRAW ALLOTMENT SIGN), LEFT .5 MILES TO "Y" IN ROAD. BLM (RAINBOW, KINGS WELL SIGN), RIGHT 6.8 MILES, SOUTH 1.5 MILES, LEFT OFF ROAD TO LOCATION.

09-08-96 MIRU Stubbs and Stubbs. Build location. Had to blast north end of reserve pit.
D.C. \$10,100 C.C. \$10,100

09-14-96 Spud with Bill Jr's. rathole.

09-15-96 Drill 320' 12-1/4" hole. Run casing. Guide shoe, 8 jts.- 9-5/8"-40#-STC-new, set @ 311'G.L. Ran 5 centralizers every other jt. Baffle first collar above shoe. MIRU B.J. Services. Pump 5 bbls. mud flush, 20 bbls. H2O, 183 sks. class G, 1/4# per sk. cello-flakes, 2% CaCL Circ. 12 bbls. slurry to pit. Good returns. Float did not hold. S.I.
D.C. \$15,924 C.C. \$26,024

09-24-96 Dig cellar. Install 11"-3m X 9-5/8" wellhead.
D.C. \$1,500 C.C. \$27,524

09-26-96 MIRU Nabors Rig # 908.. Have to move crews to another rig. Will not spud at this time.

10-11-96 DRLG @ 779'. 451' in 8.5 hrs. R.P.M.-55/100; P.P.-950; W.O.B.-12M; Drlg. with water. Bit # 1: 7-7/8", Reed, HP53A, In-328'. Surveys: 652'- 1.75 deg. Drlg.-8.5; Trip-2; Survey-.5; Drill cement plug-2; test B.O.P.-6; P.U. Tools-2; R.U.- 3 BHA: Bit, M.M., 22 D.C.- 677.57' Drill out surface @ 7:00 P.M. 10-10-96
D.C. \$11,444 C.C. \$38,968

10-12-96 DRLG. @ 2602'. 1823' in 20.5 hrs. R.P.M.- 55/100; P.P.- 950/1200; W.O.B.- 35M; Visc.- 45; Wt.- 8.9#; F.L.- 13.6; F.C.- 2/32; Ph.- 9; P.V.- 13; Y.P.- 18; Gels-Init.-8; 10 min.- 15; T.H.- 120; Surveys: 1181'- 2 deg.; 1708'- 2.75 deg.; 2170'- 3 deg. Drlg.-20.5 Surveys-1.5; R.S.- .5; R.R.- 1.5 SHOW: 2502'-2520' D.R. Before During After
Gas 20u. 1650u. 30u.
D.C. \$42,323 C.C. \$81,291

10-13-96 DRLG. @ 3511'. 909' in 22.5 hrs. R.P.M.- 55/100; P.P.- 1050/1250; W.O.B.- 35M; Visc.- 41; Wt.- 9.1#; F.L.- 9.6; F.C.- 1/32; Ph.-9.5; Chl.- 200 ppm.; P.V.- 12; Y.P.- 6; Gels-Init-1; 10 min.- 4; Solids- 5.6%; T.H.- 240; Surveys: 2756'- 2 deg.; 3253'- 2.5 deg.; Drlg.- 22.5; Cumm. Drlg.- 51.5; Surveys- 1; R.S.- .5;

SHOWS: DRILL RATE -	Before	During	After	Gas: Before	During	After
2769-2790	1.6	.4	1.09	20 u.	350 u.	35 u.
3110-3114	1.4	.5	1.5	37 u.	165 u.	36 u.
3131-3139	1.4	.37	1.4	37 u.	800 u.	35 u.
D.C. \$19,285			C.C. \$100,576			

10-14-96 DRLG. @ 3943'. 432' last 24 hrs. R.P.M.- 80; P.P.-1050psi.; W.O.B.-42M; Visc.-43; Wt.-9.1; F.L.-8; F.C.-1/32; Ph.-9; Chl.- 200ppm; P.V.-19; Y.P.-22; Gels-Init.-2; 10min.-8; T.H.-80;Solids-4.7%; T.H.-80; Surveys: 3253'-2.5deg.; 3553'-3.25 deg. Drlg.-16.5 Trip-5; W&R-1; R.R.-.5; P.U. Tools-1; T.O.O.H. Lay down mud motor. P.U. 2 drill collars. T.I. H. with bit #1. Strap out. 3' down hole correction. Recorded 600u. trip gas.

D.C. \$10,898 C.C. \$111,474

10-15-96 Making connection @ 4051'. Pulled kelly to bushings, pipe stuck @ 4007'. Could not rotate, circ., or move up or down. Work pipe for 7 hrs. MIRU Dia-Log. Run free-point. Pipe stuck @ bit. Perf. 2 shots in bit sub. Work fish for 3 hrs. Started moving some fluid aaround fish. R.U. surface jars. Jar for 1.5 hrs. Move fish down hole. Circ. and condition hole. Work through tight spot. (4006'-3970'). Tight spot @ 3780'. T.O.O.H. Made 108' in 3 hrs. Cumm. hrs.- 71; Drlg.- 3; Trip- 4; Work stuck pipe- 17;

SHOWS: DRILL RATE: Before	During	After	GAS: Before	During	After
5. 3950-3962	1	.5	1	20u.	150u. 20u.
6. 3994-4016	2.5	1	2.5	20 u.	580 u. 20u.
D.C. \$4073			C.C. \$115,547		

10-16-96 Drlg. @ 4575'. 524' in 14.5 hrs. R.P.M.-55/100; W.O.B.-35m; Visc.- 43; Wt.- 9.3; F.C.- 1/32; Ph.- 9; Chl.- 200; P.V.- 18; Y.P.- 12; Gels.- Init. 2; 10 min.- 6; T.H.- 80; Water- 93%; Solids- 7%. Surveys: 4075' - 2 deg. Bit # 1: c54319, 7-7/8, Reed, HP53A, 14/14/15, In: 328; Out-4051', 3823' in 71 hrs. Bit # 2: C 54824, 7-7/8, Reed, HP 53A, 15/15/16, In: 4051' Out- 4152', 101' in 3 hrs. Bit #3: H17723, 7-7/8, Smith, F3H, 15/15/16, In: 4152'. Drlg- 14.5; Trip- 6.5; Survey- .5; W&R- 1; PU Tools- 1.5; Cumm. Drlg.- 85.5 hrs.

T.I.H. with bit number 2. Drill 101 ft. Bit locked up. T.O.O.H. P.U. Bit #3. Shows: Drilling Rate: Before During After Gas: Before During After

4230-42339	1	.5	1	5u.	680u.	5u.
4287-4303	1.3	.5	.5	25u.	1440u.	25 u.
4306-4326	1	.5	1.3	25u.	125u.	25u.
4396-4429	2	1	2	25u.	260u.	25u.
4450-4465	1	.5	1.5	40u.	540u.	40u.
4520-4540	2.3	.5	2.3	20u.	2520u.	760u.
D.C. \$13,444			C.C. \$128,991			

10-17-96 Logging. 175' in 6.5 hrs. Cum. Drlg.- 92 hrs.

Bit # 3: LLH7723 , 7-7/8", STC, F3H, 15/15/16, In- 4152'. Out- 4750', 598' in 11.5 hrs.
T.D. @ 4750'. Condition hole. T.O.O.H. MIRU Schlumberger. Stack out @ 3844'.

Lay down tool. T.I.H. with drill pipe. Push boot to bottom. Circ. 1 hr. Short trip
10 stds. T.O.O.H. R. U. Schlumberger @ 4:00 a.m. L.T.D. 4748'. Run Array Induction,
with gamma ray and CNDL. Done logging @ 8:00 A. M.

Drlg.: 6.5, Trips- 7.5; Logging- 7.5; C&C- 2.5

D.C. \$5313

C.C. \$134,304

10-18-96 CMR tool would not work. Hotshot tool from Casper. 9 hrs. wait on tools.

Start in hole with CMR @ 5:00p.m. Out of hole @ 11:30p.m. T.I.H. Circ. 1 hr. LDDP.

Trip-2.5; Log- 5.5; Circ.- 2; PU. Tools- 2; Wait on logging tool- 9;

D.C. \$19,335

C.C. \$153,639

10-19-96 LDDP. Run casing. Bump plug @ 1:30p.m. Set slips @ 3:00p.m. R.R. 8:00p.m.

D.C. \$3758

C.C. \$157,397

COMPLETION CENTER FORK F 17-4

10-19-96 Run casing. 62 jts. 4-1/2", 11.6 #, 8rd., I-70, new, tested to 6200psi.; Ran 47 jts.

4-1/2", 11.6#, 8rd., J-55, new, tested to 4900 psi. Ran guide shoe, 1 jt., float collar,
with 20 centrizers. Total: 109 jts. landed @ 4739.84' k.b. PBTD: 4696.07' k.b. MIRU
B.J. Services. Pump 20 bbls H2O. Cement with 250 sks. class G, 16% gel., 3% salt,
10#/sk. gilsonite. Yield- 3.92 cu. ft./sk. Pump 385 sks. class G, 10% gypsum, .4% FL-25,
.2% R-3, 10% salt. Yield- 1.53 cu.ft./sk. Disp. with 72 bbls. 2% KCL. Bump plug to 2500 psi.
@ 1:30 p.m. Float did not hold. Rebump plug. Float did not hold. Rebump plug. S.I.
@ 400 psi. above circ. pressure. Circ. approx. 20 bbls. slurry to pit. Good returns. Set. slips.
Transfer 7 jts. 4-1/2", J-55 to Toby Fed. F 6-15. (307.90') R.R. 8:00p.m. 10-19-96

D.C. \$32,784 C.C.C. \$32,784 C.D.C. \$157,397 C.W.C. \$190,181

10-24-96 Clean location. Set anchors.

10-29-96 MIRU Duco Well Service. Spot pump and tank. Unload, rabbit, tally 163 jts. 2-3/8",
4.6#, 8rd. tubing. Total tally: 5026.75'. P.U. 3-7/8" bit and scraper. Tally tubing in hole.
Tag @ 4697' K.B. T.O.O.H. S.I.

D.C. \$22,977 C.C.C. \$55,761 C.D.C. \$157,397 C.W.C. \$213,158

10-30-96 MIRU Schlumberger. Run CBL/VDL/GR. from L.T.D. @ 4690'. to surface. Corr. to
CND/GR log dated 10-17-96. Excellent bond. Perf. Mesa-Verde- 4522'-4528', 6', 4 s.p.f.
3-1/8" HEG charge. P.U. S.N. and knotted collar. T.I.H. Land tubing. 146 jts. landed
@ 4506'. 4515' K.B. Install master valve. Break formation down with 2% K.C.L. Pressure
up to 3400 p.s.i. Slight bleed off but could not establish rate. Will spot acid in a.m.
Swab down to 2400'. Recovered trace of gas. S.I.

D.C. \$7017 C.C.C. \$62,778 C.D.C. \$157,397 C.W.C. \$220,175

- 10-31-96 T.P.-400 p.s.i. C.P.- 450 p.s.i. Bleed pressure off tubing. Pull 1 swab. Hit gas cut fluid @ 1200'. P.U. 1 jt. tubing. Land tubing, 147 jts. landed @ 4540' k.b. MIRU B.J. Services. Circ. gas out of hole. Spot 500 gal. 7-1/2% HCL with 1 gal. CL-22, 3 Gal. XL-21, 1 gal. Hine-40, 1 gal. clay treat. Spot acid across perms. Shut annulus. Disp. 2.2 b.p.m. @ 3800 p.s.i. Increased rate throughout job to 3.7 b.p.m. @ 3400 p.s.i. ISDP: 2400 p.s.i. 5 min: 2000 p.s.i., 10 min: 1900 p.s.i., 15 min: 1600 p.s.i. Load to recover with casing volumn: 74 bbls. Start swabbing @ 10:00 a.m. Recovered 82 bbls. in 5.5 hrs. Last 4 swabs recovered gas cut fluid from 2000' to S.N. @ 4540'. Well would flow for 10 to 15 min. after swab. Steady gas blow but not measurable rate. Left open on 24/64" choke. Ending C.P.- 400 p.s.i.
D.C. \$4575 C.C.C. \$67353 C.D.C. \$157,397 C.W.C. \$224,750
- 11-01-96 T.P.- 0 p.s.i. C.P.- 1550 p.s.i. F.L.- 200'. Pull 2 swabs. Well started flowing. Flowed 40 min. C.P. dropped to 320 p.s.i. Steady stream of water. Catch water sample. Circ. hole. Lay down 9 jts. of tubing. TOO. MIRU Schlumberger. Set CIBP @ 4500'. Pressure test CIBP to 3500 p.s.i. Perf. 4292'-4302', 10', 4 s.p.f. with 3-1/2-37 j charges. TIH. Land tubing 138 jts. landed @ 4265' k.b. Break down formation with rig pump. (2%KCL). 1.5 b.p.m. 2400 p.s.i. ISDP: 2200 p.s.i.; 5 min.- 700 p.s.i.; 10 min.- 200 p.s.i.; 15 min.- 50 p.s.i. Swab back. 60 bbls. in 8 runs. Hole volumn: 59.5 bbls. Steady blow on tubing and casing. Left open to tank on 24/64" choke.
WATER SAMPLE: 4522-4528: S.P.- 1.005 @ 70 deg. F.; PH- 7; Res: .300 ohms. @ 70 deg. F. Iron- 25 ppm; Calcium- 259 ppm; Magnesium- 206 ppm; Chlorides- 5969 ppm. Sodium-Potassium- 6634 ppm.; Sulfate- 80 ppm.; T.H.- 1,493 ppm; Bicarbonate- 1821 ppm. Sodium Chloride- 9,819 ppm.; T.D.S.- 15,997 ppm.
D.C. \$6586 C.C.C. \$73,939 C.D.C. \$157,397 C.W.C.- \$231,336
- 11-02-96 F.T.P.- 100 p.s.i. C.P.- 575 p.s.i. Flowing water and gas. Remove choke. Unload fluid. 7:30 a.m.- T.P. 30 p.s.i. C.P.- 200 p.s.i. Pull 1 swab. Install tester. Making to much water. Hool up flow line to frac tank through 24/64" choke. F.T.P.- 115 p.s.i. C.P.- 525 p.s.i. T.G. 1'-6" @ 11:00 a.m. Release rig crew.
D.C. \$1370 C.C.C. \$75,309 C.D.C. \$157,397 C.W.C. \$232,701
- 11-03-96 F.T.P. 110 p.s.i. C.P. 500 p.s.i. T.G. 4'. Made 108 bbls. of water in 21 hrs. Circ. hole. TOO. MIRU Schlumberger. Set CIBP @ 4270'. Pressure test plug to 3500 p.s.i. Perf. Mesa-Verde: 4234'-4240', 6', 4 s.p.f. 3-1/2 37J charges. TIH. Land tubing. 136 jts. landed @ 4206'k.b. Break down with 2% KCL. Formation break @ 3200 p.s.i. Pump 1.5 b.p.m. @ 1800 p.s.i. ISDP- 1400 p.s.i.; 5 min.- 400 p.s.i.; 10 min.- 200 p.s.i.; 15 min- 100 p.s.i.; P.U. swab. Hole volumn- 58 bbls. Swab back 55 bbls. in 13 swabs. Ending fluid level- 3200'. Highly gas cut fluid. Left open to frac tank on 24/64" choke. C.P.- 140 p.s.i.
D.C. \$5903 C.C.C. \$81,212 C.D.C. \$157,397 C.W.C. \$238,609
- 11-04-96 T.P.-0 p.s.i. C.P.- 500 p.s.i. S.I. tubing @ 7:30 a.m. 3:00 p.m.- T.P.- 250 p.s.i. C.P.- 800 p.s.i. Take out choke. Try to un-load well. Would not flow. Left open to tank @ 4:30 p.m. On 24/64" choke.
D.C. \$95 C.C.C. \$81,307 C.D.C. \$157,397 C.W.C. \$238,704
- 11-05-96 T.P.- 0; C.P.- 825 p.s.i. P.U. Swab. F.L.- 1500'. Pull 2 swabs. Well flowing. Recovered 9 bbls. Water. 6 bbls. Over load. Flow to tank @ 8:00 a.m. on 18/64" choke. T.P.- 290 p.s.i. C.P.- 450 p.s.i. 9:00 a.m. T.P. 0. P.U. swab. Make 2 hrly. Swabs. Recovered 100' water on swab each hr. Small gas blow. Circ. Hole. TOO. S.I.
D.C. \$1709 C.C.C. \$83,016 C.D.C. \$157,397 C.W.C. \$240,413

11-06-96 MIRU Schlumberger. Set CIBP @ 4200'. Pressure test to 3500 p.s.i. Perf. Wasatch- 3997'-4009', 12', 4 s.p.f. 3-1/2 37J charges. TIH. Land tubing. 128 jts. landed @ 3960' K.B. Break down with 2% KCL. Break @ 3400 p.s.i. Pump 1.5 b.p.m. @ 1600 p.s.i. ISDP- 1000 p.s.i.; 5 min.- 200 p.s.i.; 10 min.- 100 p.s.i.; 15 min.- 100 p.s.i. LTR- 62 bbls. Swab down. Recovered 61 bbls. Steady blow on tubing. C.P.- 100 p.s.i. Left open to tank on 18/64" choke.
D.C. \$6367 C.C.C. \$89,383 C.D.C. \$157,397 C.W.C. \$246,780

11-07-96 T.P.-0; C.P.- 100 p.s.i. PU swab. F.L.- 1600'. Swab down. Recovered 34 bbls. In 2.5 hrs. Last 3 swabs fluid level @ 3300'. Recovered 2 bbls. Each swab. Catch water sample. Circ. hole. Lay down 28 jts. TOOH. S.I.
D.C. \$1,461 C.C.C. \$90,844 C.D.C. \$157,397 C.W.C. \$248,241

11-08-96 T.P.-0; C.P.- 100 p.s.i. MIRU Schlumberger. Perf. 3134'-3140', 6', 4 s.p.f. 3-1/2, 37J charges. Perf. 3112'-3116', 4', 4 s.p.f. 3-1/2, 37J charges. P.U. 4-1/2" RBP and PKR. TIH. Set RBP @ 3168.66 KB. Set packer @ 3124.87' Pump down tubing. Pressure up to 2200 p.s.i. Casing started flowing. Pressured up on casing tubing started flowing. Set packer @ 3089' KB. Pressure test annulus to 2000 p.s.i. Held. Pump down tubing: 3 b.p.m. @ 2500 p.s.i. Pumped 6 bbls. ISDP- 1500 p.s.i. 5 min.- 1000 p.s.i. 10 min.- 500 p.s.i. 15 min.- 400 p.s.i. RU swab. Made 3 runs. Recovered 17 bbls. Light blow on tubing. Fourth swab recovered 1/2 bbl. Left tubing open to tank on 24/64" choke.
D.C. \$6858 C.C.C. \$97,527 C.D.C. \$157,397 C.W.C. \$254,924

11-09-96 T.P.-0; RU swab. F.L.- 1000'; Made 5 swab runs. Waited 1 hr. Swab. F.L.- 2600'. S.N. @ 3070'. ; Rec. 1.9 bbls. On first run. 3.8 bbls. On second run. Water looks like it has drilling fines in it. Release packer. Set PKR below perfs. Test RBP. Pumped down tubing. Casing flowed. Reset PKR. Casing flowed. Retrieve RBP. Move RBP 4' down hole. Set PKR. Tested to 2000 p.s.i. Held. Isolate perfs @ 3134-3140' Pumped down casing into perfs @ 3112-3116'. Now flow up tubing. RU swab. Make 5 swab runs. Rec. 19 bbls. Well dry. Waited 45 min. Recovered 1/2 bbl. Make one more swab. Recovered 1/2 bbl. Left open to tank on 24/64" choke.
D.C. \$2878 C.C.C. \$100,405 C.D.C. \$157,397 C.W.C. \$257,802

11-10-96 Slight gas blow on tubing. P.U. swab. F.L.- 1200'. Swab down in 3 runs. Recovered 7.7 bbls. Make hrly. Swabs. Recovering 1 bbl. Per hr. Catch water sample. Left open to tank.
D.C. \$2156 C.C.C. \$102,561 C.D.C. \$157,397 C.W.C. \$259,958

11-11-96 Rig shut down for Sunday.
D.C. \$30 C.C.C. \$102,591 C.D.C. \$157,397 C.W.C. \$259,988

11-12-96 Trace of gas. Swab. F.L. 2100'. Made 2 swabs. Tubing dry. Wait 1 hr. Rec. 1/2 bbl. Wait 1 hr. Recovered 1/2 bbl. Release packer. Retrieve RBP. TOOH. PU. 3-7/8" bit. TIH. Tag CIBP @ 4200'. PU power swivel. Drilling on CIBP.
D.C. \$4203 C.C.C. \$106,794 C.D.C. \$157,397 C.W.C. \$264,191

11-13-96 TOOH for bit change. PU new 3-7/8" bit. TIH. Drilled through CIBP @ 4200' @ 12:30 p.m. TIH. Drilling on CIBP @ 4270'. Drilled 18". Quit making hole. TOOH. For bit inspection. One cone almost gone. Will PU new bit.
D.C. \$3067 C.C.C. \$109,861 C.D.C. \$157,397 C.W.C. \$267,258

11-14-96 PU new 3-7/8" bit. TIH. Circ. 3" of cuttings off CIBP. Drill 21" on CIBP. Bit quit
Drilling. TOOH. Most of the teeth were broken off. Will PU drag mill in A.M.
D.C. \$2546 C.C.C. \$112,407 C.D.C. \$157,397 C.W.C. \$269,804

11-15-96 PU 3-7/8" mill. TIH. Drill on CIBP for 40 min. Push down hole to 4500'. TOOH. Run tubing
as follows. KB-12'; 134 jts. Tubing-4154.11'; AD-1 Packer-2.46'; 4 jts. Tubing-125.26';
S.N.-1.10'; 1 jt. Tubing- 30.80; knotted collar-.55; Tubing landed @ 4326.18 KB.
Packer set @ 4168.57'. S.N. @ 4294.83'. Left open to tank.

Form 1100-1
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

FREEDOM ENERGY, INC.

3. Address and Telephone No.

1050 17th. St. Ste. 710, DENVER, CO. 80265 (303) 592-3022

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

580'FWL, 688'FNL NW/NW SEC.17, T12S, R24E

FORM APPROVED

Budget Bureau No. 1004-0115
Expires: March 31, 1993

5. Lease Designation and Serial No.

UTU-75206

6. If Indian, Address of Tribe Name

7. If Utah or CA, Agreement Designation

8. Well Name and No.

CENTER FORK F 17-4

9. API Well No.

43-047-32750

10. Field and Pool or Exploratory Area

WILDCAT

11. County or Parish, State

UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

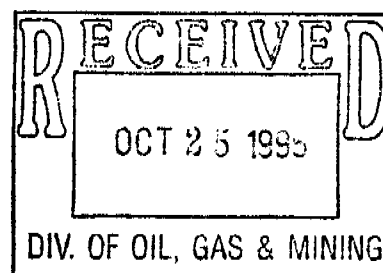
- ☐
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☐
- Other

- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report needs of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent data, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilling Report



14. I hereby certify that the foregoing is true and correct

Signed

Paul Frank

Title

Vice-President

Date

10-21-96

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-011
Expires: March 31, 1993
3. Lease Designation and Serial No.
UTU-75206
4. If Indian, Allottee or Tribe Name
--

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator
FREEDOM ENERGY, INC.
3. Address and Telephone No.
1050 17th. St. Ste. 710, DENVER, CO. 80265 (303) 592-3022
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
580'FWL, 688'FNL NW/NW SEC.17, T12S, R24E

7. If Unit or CA, Agreement Designation
--
8. Well Name and No.
CENTER-FORK F 17-4
9. API Well No.
43-047-32750
10. Field and Pool, or Exploratory Area
WILDCAT
11. County or Parish, State
UINTAH COUNTY, UTAH

13. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

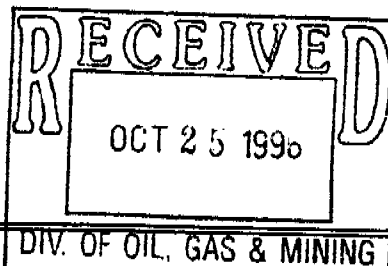
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on W. Completion or Recompletion Report and Log form.)

14. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

COMPLETION PROCEDURE FOR MESAVERDE 4522' - 4528'

Clear location. Set anchors. MIRU Well Service Unit. Install B.O.P. P.U. 3 7/8" bit and scraper. P.U. and tally tubing in hole to P.B.T.D. TOOH. MIRU Schlumberger. Run CBL/VDL/GR from T.D. to surface. Perf. Mesaverde: 4522' - 4528', 6', 4 s.p.f., Total: 24 shots. P.U.S.N. and knotted collar. T.I.H. Land tubing @ 4500'. Break down formation with rig pump with 2% KCL. Swab test. If commercial rates of gas are encountered will release rig and hook up surface equipment.



14. I hereby certify that the foregoing is true and correct

Signed Steven W. Sheft

Title Exploration Manager

Date Oct. 22, 1996

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Accepted by the
Utah Division of

Oil, Gas and Mining

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

FOR RECORD ONLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0115
Expires: March 31, 1993
3. Lease Designation and Serial No.
UTU-75206
6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator
FREEDOM ENERGY, INC.
3. Address and Telephone No.
1050 17th. St. Ste. 710, DENVER, CO. 80265 (303) 592-3022
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
580' FWL, 688' FNL NW/NW SEC. 17, T12S, R24E

7. If Unit or CA, Agreement Designation

8. Well Name and No.
CENTER FORK F 17-4
9. API Well No.
43-047-32750
10. Field and Pool, or Exploratory Area
WILDCAT
11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

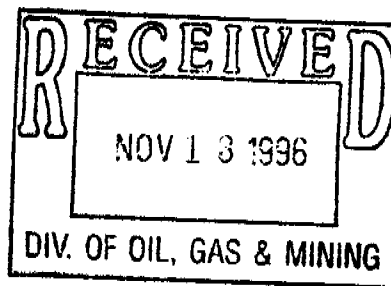
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other PERF & TEST MESA VERDE	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SET CIBP OVER PERFORATED INTERVAL @ 4522-4528'. SET @ 4500'
WILL PERF. AND TEST FOLLOWING MESA VERDE ZONES.
4292-4302', 10', 4 S.P.F.
4234-4240', 6', 4 S.P.F.
3997-4009' 12', 4 S.P.F.

WILL ISOLATE ZONES WITH RBP AND PACKER. WILL TREAT ZONES WITH 500 GAL. 7-1/2% HCL IF NEEDED.



14. I hereby certify that the foregoing is true and correct

Signed Paul Franko

Title Vice-President

Date 11-8-96

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any: _____

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR FREEDOM ENERGY, INC.

OPERATOR ACCT. NO. H 3285

ADDRESS 1050 17TH ST. STE. 710

DENVER, CO. 80265

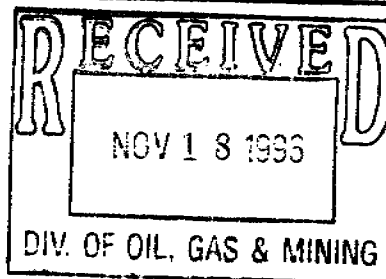
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG	COUNTY			
A (1)	99999	12038	43-047-32750	CENTER FORK F 17-4	NW	NW	17	12S	24E	UINTAH	9-14-96	11-15-96
WELL 1 COMMENTS: Entity added 11-18-96. <i>je</i>												
WELL 2 COMMENTS:												
WELL 3 COMMENTS:												
WELL 4 COMMENTS:												
WELL 5 COMMENTS:												

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)



Paul Frank
Signature
Vic-President
Title
10-25-96
Date
Phone No. (303) 592-3022

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

3. Lease Designation and Serial No.

UTU-75206

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CENTER FORK F 17-4

9. API Well No.

43-047-32750

10. Field and Pool, or Exploratory Area
WILDCAT

11. County or Parish, State

UINTAH COUNTY, UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

FREEDOM ENERGY, INC.

3. Address and Telephone No.

1050 17th. St. Ste. 710, DENVER, CO. 80265 (303) 592-3022

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

580' FWL, 688' FNL NW/NW SEC. 17, T12S, R24E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

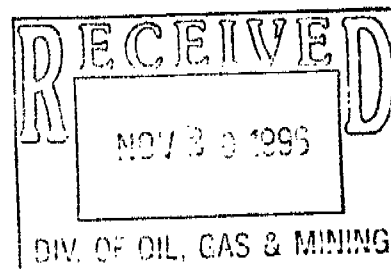
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other COMPLETION REPORT
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

COMPLETION REPORT



14. I hereby certify that the foregoing is true and correct

Signed

Paul Frank

Title VICE-PRESIDENT

Date 11-18-96

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING NOV 20 1996

RECEIVED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG				1. LEASE DESIGNATION AND SERIAL NO. UTU-75206	
2. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>				3. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
4. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REVEL. <input type="checkbox"/> Other <input type="checkbox"/>				5. UNIT AGREEMENT NAME ---	
6. NAME OF OPERATOR FREEDOM ENERGY, INC.				7. FARM OR LEASE NAME CENTER FORK F	
8. ADDRESS OF OPERATOR 1050 17TH ST. STE. 710 DENVER, CO. 80265				9. WELL NO. 17-4	
10. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 580' FNL-688' FWL NW/NW At top prod. interval reported below SAME At total depth SAME				11. FIELD AND POOL OR WILDCAT WILDCAT	
12. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA SEC. 17-T12S-R24E SLM				13. STATE UTAH	
14. API NO. 43-047-32750		15. DATE ISSUED 5/28/96		16. COUNTY UINTAH	
17. DATE SPUDDED 9-14-96		18. DATE T.D. REACHED 10-17-96		19. DATE COMPL. (Ready to prod.) 11-15-96 (Plug & Ab.)	
20. ELEVATIONS (OF. RES. AT. CR. ETC.) 6212' G.L.		21. ELEV. CASINGHEAD 6224' K.B.		22. TOTAL DEPTH, MD & TVD 4750' TVD	
23. PLUG BACK T.D. MD & TVD 4500' K.B. (CIBP)		24. IF MULTIPLE COMPL. HOW MANY ---		25. INTERVALS DRILLED BY 0-4750'	
26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 4292'-4302' TVD MESA-VERDE				27. WAS DIRECTIONAL SURVEY MADE NO	
28. TYPE ELECTRIC AND OTHER LOGS RUN CNL/DIL/GR/SP/CMR CBL/VDL/GR 11-20-96				29. WAS WELL CORED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (Indicate analysis) DRILL STEM TEST YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (See remarks column)	
30. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	40#	311' G.L.	12-1/4"	183 SKS CLASS G	0
4-1/2"	11.6#	4739' K.B.	7-7/8"	635 SKS CLASS G	0
31. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	PACKER SET (MD)
N/A					
32. TUBING RECORD			33. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
SIZE	DEPTH SET (MD)	PACKER SET (MD)	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
2-3/8"	4326'	4168'	4522-4528	500 GAL. 7-1/2% HCL	
34. PERFORATION RECORD (Interval, size and number) 4522-4528' CIBP@4500' 4292-4302' MESA-VERD 4234'-4240' MESA VERDE 3997-4009' MESA VERDE 3134-3140' WASATCH 3112-3116' WASATCH					
35. PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)		WELL STATUS (Producing or Shut-in) SHUT-IN	
DATE OF TEST 11-1-11-3	HOURS TESTED 36HRS	CHOKER SIZE 24/64"	PROD'N. FOR TEST PERIOD ---	OIL—BBL 550MCF	GAS—MCF 108BBL
FLOW. TUBING PRESS. 110-210	CASING PRESSURE 550PSI	CALCULATED 24-HOUR RATE ---	OIL—BBL ---	GAS—MCF 550 MCF	WATER—BBL 108 BBL
36. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED				TEST WITNESSED BY	
37. LIST OF ATTACHMENTS LOGS ENCLOSED DIL/CNL CBL					
38. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED Paul Frank		TITLE Vice-President		DATE 11-14-96	

See Spaces for Additional Data on Reverse Side

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 10: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES:

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

Formation	Top	Bottom	Description, contents, etc.	Name	Mass. Depth	Top
Green River	Surface	2430'	Interbedded shale, sandstone, and limestone	Uteland Butte	2334'	
Wasatch	2430'	3994'	Interbedded shale and sandstone			
Mesaverde	3994'	4744'	Interbedded shale, sandstone, and coal			

38.

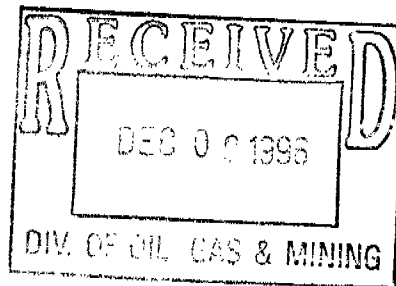
GEOLOGIC MARKERS



CONFIDENTIAL

December 3, 1996

State Division Oil, Gas & Mining
1594 W. N. Temple
Suite 1210
Box 145801
Salt Lake City, Utah 84114



Attn: Kristen

Dear Kristen,

43-047-32750

Please keep the Freedom Energy Inc. Center Fork F #17-4 under Tight Hole status.

Freedom has also drilled three other wells which we would like to have placed under Tight Hole status.

They are:

Toby Federal F #6-15 43-047-32757
Hanging Rock F #7-6 43-047-32751
Hanging Rock I #12-4 43-047-32748

Sincerely,

Steve Shefte
Steve Shefte

CONFIDENTIAL

BJ SERVICES COMPANY

WATER ANALYSIS #VR03W189

VERNAL LAB

GENERAL INFORMATION

OPERATOR: FREEDOM	DEPTH: 4292-4302
WELL: CENTER FORK 17-4	DATE SAMPLED: 11/04/96
FIELD:	DATE RECEIVED: 11/04/96
SUBMITTED BY: PAUL FRANKS	COUNTY: UTAH STATE: UT
WORKED BY: DAVE BURGER	FORMATION:
PHONE NUMBER: 801-781-2294	

SAMPLE DESCRIPTION

CLOUDY WATER FILTERED TO CLEAR

PHYSICAL AND CHEMICAL DETERMINATIONS

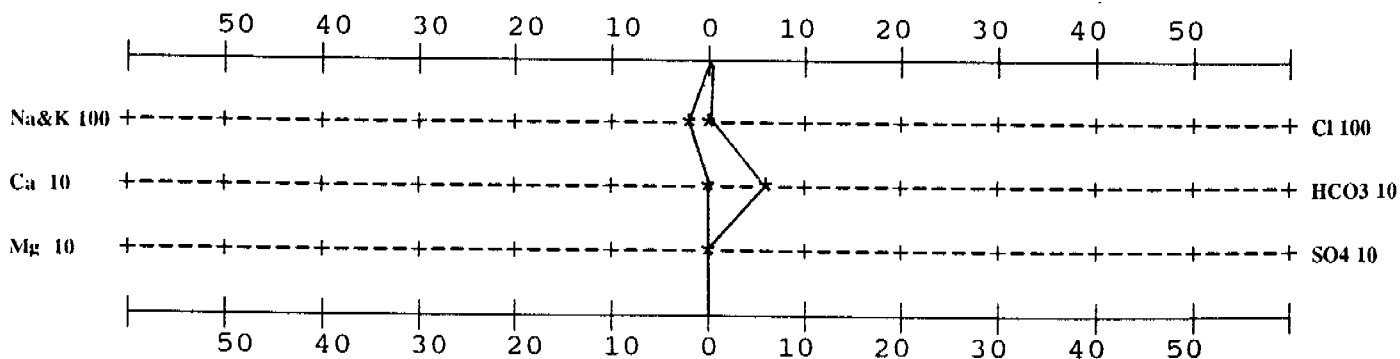
SPECIFIC GRAVITY:	1.000	@ 72°F	PH:	8.50
RESISTIVITY (MEASURED):	10.000	ohms @ 72°F		
IRON (FE++) :	0 ppm	SULFATE:		0 ppm
CALCIUM:	60 ppm	TOTAL HARDNESS		200 ppm
MAGNESIUM:	12 ppm	BICARBONATE:		3,172 ppm
CHLORIDE:	2,000 ppm	SODIUM CHLORIDE (Calc)		3,289 ppm
SODIUM+POTASS:	4,074 ppm	TOT. DISSOLVED SOLIDS:		9,446 ppm
IODINE:		POTASSIUM CHLORIDE:		100

REMARKS

H₂S NOT PRESENT
 CARBOHYDRATES NOT DETERMINED

PRODUCING ZONE

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

DAVE BURGER

BJ SERVICES

Water Analysis Worksheet

OPERATOR: Freedom
FIELD: _____
DEPTH: 4292-4302
DATE SAMPLED: 11/4/66
COUNTY: Clinton
WORKED BY: Dave Burger

ANALYSIS #: 1
WELL NAME: Center Fork 17-4
FORMATION: _____
SUBMITTED BY: Paul Trunks
DATE RECEIVED: 10/14/66
STATE: WV

SAMPLE DESCRIPTION: Clear Water Filtered to clear

REMARKS: _____

SPECIFIC GRAVITY: 1.000 TEMP.: 22 pH: 8.5

This program requires that the molarity of EDTA and the ML of sample be the same for Calcium and Total Hardness. This is in order to be able to calculate Magnesium.

Molarity of EDTA: 0.01 ML of Sample: 2 (Used in Ca & Hardness)

ML of EDTA used in Calcium: 0.3 ML of EDTA used in Hardness: 0.40

Resistivity: 10+ (OHMS/METER)

Chloride: ML of Silver Nitrate: 0.5
Normality of AgNO₃: 0.524

ML of Sample: 5

Bicarbs: ML of HCl: 2.6
Normality of HCl: 0.10

ML of Sample: 5

Sulfate: Turbidimetric Method
0 MG/L

Phosphate: 0 MG/L

Iron: 0 MG/L

Potassium: 100 MG/L

If K was not determined, do you suspect the material to be:

Mainly Na (Y/N)?

Mainly K (Y/N)? X

Half of Both? _____

Carbohydrates: ND PPTG -

NOTE: For Phosphate, Iron, and Potassium if there is none detected enter '0' on that field.
If it was Not Determined enter 'ND' on that field.

(920) 381 - 0395

BJ SERVICES COMPANY**WATER ANALYSIS #VR03W188****VERNAL LAB****GENERAL INFORMATION**

OPERATOR:	FREEDOM ENGERY	DEPTH:	4522-4528
WELL:	CENTER FORK 17Y	DATE SAMPLED:	10/30/96
FIELD:		DATE RECEIVED:	10/30/96
SUBMITTED BY:	PAUL FRANKS	COUNTY:	UINTAH
WORKED BY:	TEX GIESE	STATE:	UT
PHONE NUMBER:	970-381-0395	FORMATION:	MESA VERDE
			4522'-4528'

SAMPLE DESCRIPTION

CLOUDY DARK H2O FILTERED CLEAR

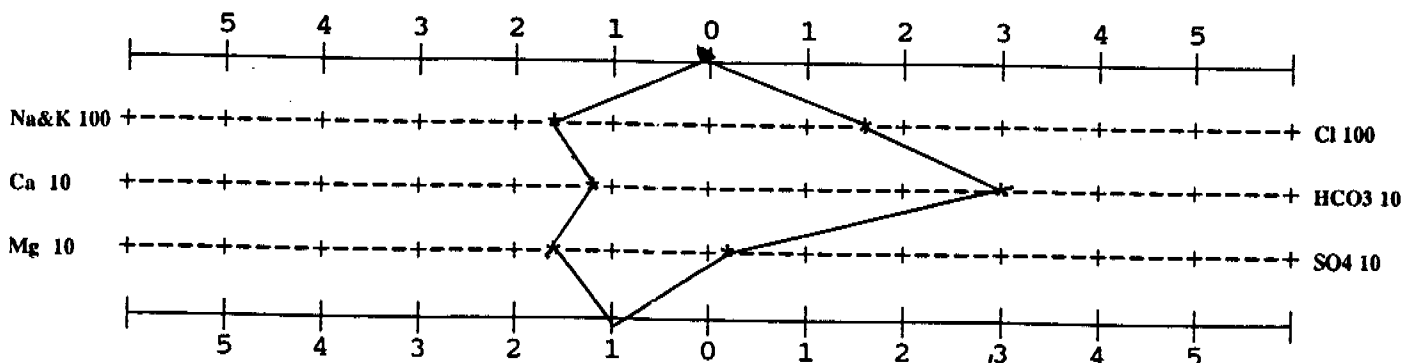
PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.005	@ 70°F	PH:	7.00
RESISTIVITY (MEASURED):	0.300	ohms @ 70°F		
IRON (FE++) :	25 ppm	SULFATE:		80 ppm
CALCIUM:	259 ppm	TOTAL HARDNESS		1,493 ppm
MAGNESIUM:	206 ppm	BICARBONATE:		1,821 ppm
CHLORIDE:	5,969 ppm	SODIUM CHLORIDE(Calc)		9,819 ppm
SODIUM+POTASS:	6,634 ppm	TOT. DISSOLVED SOLIDS:		15,997 ppm
IODINE:		POTASSIUM CHLORIDE:		1500 1.2%

REMARKS

NO H2S PRESENT

INJECTION ZONE

STIFF TYPE PLOT (IN MEQ/L)

ANALYST

Tex Giese
 TEX GIESE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

3. Lease Designation and Serial No.

UTU-75206

6. If Indian, Allottee or Tribe Name

--

7. If Unit or CA, Agreement Designation

--

8. Well Name and No.

CENTER FORK F 17-4

9. API Well No.

43-047-32750

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

FREEDOM ENERGY, INC.

3. Address and Telephone No.

1050 17th. St. Ste. 710, DENVER, CO. 80265 (303) 592-3022

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

580' FWL, 688' FNL NW/NW SEC. 17, T12S, R24E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Install and test DHI tool.
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
FEI is requesting permission to test a Down Hole Injection Tool. (DHI) in this well.

Water would be injected into a Mesa Verde formation that tested wet from 4522-4528' on 11-1-96. A water sample is enclosed. The producing zone is a Mesa Verde formation from 4292'-4302'. This zone tested between 300 and 600 mcf with 108 bbls of water per day on 11-1-11-2-96. Water sample enclosed.

We will perf. 4528-4560', 4 s.p.f; 4566'-4604' 4 s.p.f. Break formations down with 1000 gal. 7-1/2% HCL. and perform a rate test. The DHI tool will be installed in the well with an Elder Lok-Set packer set @ 4500' isolating the producing zone from the injection zone. A check valve is run below the packer.

Gas is produced up the annulus and water is injected into the lower formations of the down stroke of the pump.

We also request permission to test gas to the pit for a period of 1 month to test the well and the injection tool before laying line to our gathering system.

ENCLOSED: Tool information, well diagram, water samples.

14. I hereby certify that the foregoing is true and correct

Signed Paul Frank

Title Vice President

Date 2-8-97

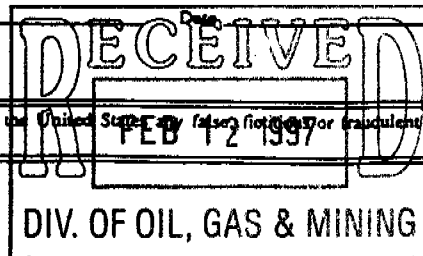
(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



**ATTACHMENT TO COMPLETION REPORT
MONUMENT STATE # 32-2-9-17CD
SW NE SECTION 2, T9S, R17E
UINTAH COUNTY, UTAH**

<u>DEPTH INTERVAL</u>	<u>AMOUNT AND KIND OF MATERIAL USED</u>
4808'-4830'	Break down with 3,570 gallons 2% KCL water. Fracture with 36,000# 16/30 mesh sand 13,524 gallons 2% KCL gelled water.
4892'-4906'	Break down with 1,512 gallons 2% KCL water. Fracture with 36,000# 16/30 mesh sand 13,524 gallons 2% KCL gelled water.
5285'-5311'	Break down with 5,460 gallons 2% KCL water. Fracture with 16,800# 20/40 mesh sand and 42,900# 16/30 mesh sand 19,572 gallons 2% KCL gelled water.

DAILY OPERATING REPORT

BALCRON MONUMENT STATE #32-2-9-17CD

Location: SW NE Section 2, T9S, R17E

Uintah County, Utah

---TIGHT HOLE---

1648' FNL, 2282' FEL

PTD: 5850' Formation: Green River

Prospect: Undesignated

API #43-047-32737

Elevations: 5076.1' GL

Contractor:

Operator: EREC/Western Region

Spud:

Casing:

Tubing:

- 09/16/96 TD: 278' (278') Day 1
Formation: Sundance
Present Operation: Nipple Up
MIRU Union Rig #17. Drill conductor & rat hole. Spud well @ 4:30 PM, 9/15/96. Drill 278' of 12-1/4" surface hole. Circulated hole clean. TOOH, ran 6 jts or 248.75' of 8-5/8", 24#, J-55, ST&C surface csg. Cemented w/160 sxs of Class "G" w/2% CaCl2 & 1/4#/sx Flocele. Csg set @ 258' w/insert float @ 216'. Plug down @ 12:30 AM 9/16/96 w/good returns. Wait on cement, nipple up.
DC: \$38,412 CC: \$38,412
- 09/17/96 TD: 1286' (1008') Day 2
Present Operation: Drilling
NU BOP stack. Tested BOP stack to 2000 psi, OK. Tested csg to 1500 psi, OK. TIH. Drilled cement, drilled new hole. Rig service. Survey @ 580' - 1/2°. Drill. Survey @ 1100' - 3/4°. Drill.
DC: \$14,701 CC: \$53,113
- 09/18/96 TD: 2720' (1434') Day 3
Present Operation: Drilling
Drill. Survey @ 1600' - 1°. Drill. Survey @ 2175' - 1 1/2°. Drill. Survey @ 2675' - 1 1/2°. Drill.
DC: \$17,979 CC: \$71,092
- 09/19/96 TD: 3790' (1070') Day 4
Present Operation: Drilling
Drill. Rig service. Hole started loading up w/wtr. Loaded hole w/KCL wtr. TOOH, picked up bit & mud motor. TIH, wash & ream 35' of fill. Drill. Survey @ 3575' - 1°. Drill.
DC: \$14,469 CC: \$85,561
- 09/20/96 TD: 4698' (908') Day 5
Present Operation: Drilling

Drill. Run survey @ 4000' - 2-1/2°. Drill. Run survey @ 4560' - 2-1/4°. Drill. Rig repair. Drill. Rig repair. Drill.
DC: \$13,076 CC: \$98,637

09/21/96 TD: 5558' (860') Day 6
Present Operation: Drilling
Drill. Rig service. Drill. Survey @ 5230', 2°. Drill.
DC: \$11,182 CC: \$109,819

09/22/96 TD: 5717* (159') Day 7
Present Operation: ND BOPs
Drilled to 5686'. Mud motor locked up. Circulated hole clean. Layed down drill pipe and drill collars. RU loggers & logged. Loggers TD 5718'. Ran & cemented 5-1/2" csg as follows:
1 - Guide shoe .75'
1 - jt 15.5#, J-55, LTC 42.55'
1 - Float collar 1.00'
135 - jts 15.5#, J-55, LTC 5643.54'
KB 10.00'
Cement w/lead: 150 sxs of Sugper "G" w/3% salt, 2% gel, 2#/sx Kol-seal, & 1/4#/sx Cello Flake. Tail: 360 sxs of 50/50 poz w/2% gel, 2#/sx Kol-seal & 1/4#/sx Cello Flake.
Plug down @ 5:15 AM, 9/22/96, w/good returns. ND BOPs.
*Found 31' error in tally board. Correct to proper depth.
DC: \$54,483 CC: \$164,302

09/23/96 TD: 5717' (0') Day 8
Present Operation: RD to move off.
Finished ND. Set slips. Cleaned mud tank. Rigged down. Rig released @ 9:15 AM 9/22/96.
DC: \$4,133 CC: \$168,435

10/01/96 Completion
Dress up location, set rig anchors, set rig pump & tanks. MIRU Cannon Well Service Rig #2. Tih w/4-3/4" bit, csg scrapper & 182 jts 2-7/8" tbg. Tag PBTD @ 5629' KB. Circulate hole clean w/140 bbls 2% KCL wtr. Press test csg & BOP to 1000 psi, OK. TOO H w/tbg & tools. SWIFD.
DC: \$6,218 CC: \$174,653

10/02/96 Completion
RU Cutters Wire Line to run CBL & perf. Run CBL from 5616' KB to 1300' KB. Top of cement 1555' KB. Perf 5285' - 5286', 5288' - 5305', 5308' - 5311', 4SPF. RD Cutter. TIH w/TS RBP, retrieving tool, 2-3/8" x 4' sub, HD pkr, 2-7/8" SN & 172 jts 2-7/8" tbg. Set BP @ 5356' KB, EOT @ 5227' KB, pkr @ 5220' KB. RU BJ Services & break down 5285' - 5311' w/5460 gals 2% KCL break down fluid. ATP = 2000 psi, ATR = 5.2 bpm, ISIP = 1400 psi. Used 130 bbls wtr. Release pkr. TOO H w/tbg, pkr & retrieving tool. SWIFD.
DC: \$8,349 CC: \$183,002

10/03/96 Completion

RU BJ Services to frac 5285' - 5311'. Frac w/19,572 gals 2% KCL gelled wtr, 16,800 lbs 20/40 mesh sand & 42,900 lbs 16/30 mesh sand. ATP = 1700 psi, ATR = 31.0 bpm, ISIP = 2200 psi, 5 min = 1770 psi, 10 min = 1630 psi, 15 min = 1570 psi, 30 min = 1530 psi. Used 466 bbls wtr. Start forced closure flow back, .5 bbl per minute. Flow back 275 bbls wtr, trace of sand. TIH w/retrieving tool, 2-3/8" x 4' sub, HD pkr, SN & 170 jts tbg. Tag sand @ 5250' KB. Circulate down to BP @ 5356' KB. Set pkr @ 5220' KB. Made 11 swab runs. Recovered 57 bbls wtr, trace of sand. Fluid level 1550' last run. SWIFN.

DC: \$28,678

CC: \$211,680

10/04/96

Completion

Fluid level @ surface. Made 31 swab runs. Recovered 16 bbls oil, 137 bbls wtr, trace of sand & good gas. No sand last 7 runs. Oil 30% last 5 runs. Fluid level @ 2150' last 5 runs. Release pkr, tag sand @ 5340' KB. Circulate down to BP @ 5356' KB. Used 12 bbls wtr. Reset BP @ 4982' KB. TOOH w/tbg, pkr & retrieving tool. SWI until 10/07/96.

DC: \$1,958

CC: \$213,638

10/06/96

Completion

RU Cutter Wire Line & Perf: 4808' - 4813', 4 holes; 4815' - 4819', 3 holes; 4825' - 4830', 4 holes; 4892' - 4896', 3 holes; 4903' - 4906', 2 holes. RD Cutter. TIH w/retrieving tool, 2-3/8" x 4' sub, HD pkr, 2-7/8" SN & 158 jts 2-7/8" tbg. Retrieve BP. Reset BP @ 4856' KB, EOT @ 4790' KB, pkr @ 4783' KB. RU BJ Services & break down 4808' - 4830' w/3570 gals 2% KCl wtr. ATP = 1220 psi, ATR = 3.1 bpm, ISIP = 1000 psi. Used 85 bbls wtr. Reset BP @ 4982' KB, EOT @ 4853', pkr 4856' KB. Break down 4892' - 4906' w/1512 gals 2% KCL wtr. ATP = 1875 psi, ATR = 3.2 bpm, ISIP = 1100 psi. Used 36 bbls wtr. RD BJ Services. TOOH w/tbg, pkr & retrieving tool. SWIFD. Flowed back 40 bbls wtr.

DC: \$4,243

CC: \$217,881

10/08/96

Completion

RU BJ Services & frac 4808' - 4906' w/13,524 gals 2% KCL gelled wtr & 36,000 lbs 16/30 mesh sand. ATP = 2700 psi, ATR = 34.9 bpm, ISIP = ??, 5 min = 1610 psi, 10 min = 1560 psi, 15 min = 1510 psi. Used 322 bbls wtr. Screen out in 6# stg w/16,000# on formation. 20,000# sand in csg. RD BJ Services. Bleed well down, flow back 75 bbls wtr. TIH w/retrieving tool, 2-3/8" x 4' sub, HD pkr, SN & 20 jts tbg. Tag sand @ 622' KB. Circulate down to BP @ 4982' KB. Set pkr @ 4783' KB. SWIFN.

DC: \$28,219

CC: \$246,100

10/09/96

Completion

Bleed well down. Flow back 15 bbls wtr. Made 34 swab runs. Recovered 13 bbls oil, 154 bbls wtr, good gas, 2% sand. Oil 20% last 4 runs. Fluid level @ 1900' last 3 runs. SWIFD.

DC: \$1,895

CC: \$247,995

10/10/96

Completion

Could not get swab down (heavy oil). Pump 10 bbls hot wtr down tbg. Made 30 swab runs. Recovered 36 bbls oil, 108 bbls wtr, good gas, trace sand. Oil 40% last 3 runs. No sand last 16 runs. Good gas last 18 runs. Fluid level 2700' last 3 runs. SWIFD.

DC: \$2,533

CC: \$250,528

10/11/96

Completion

Flush tbg w/15 bbls wtr. Release pkr, circulate w/60 bbls wtr to kill well. Had trouble getting pkr free. Tag sand @ 4960' KB. Circulate down to BP @ 4982' KB. Release BP. TOOH w/tbg, pkr & BP. TIH w/production string (tbg) as follows:

	<u>LENGTH</u>	<u>DEPTH KB</u>
1 - notched-pinned collar	.40'	5380.78'
1 - jt 2-7/8", EUE, J-55, 8rd, 6.5#	30.03'	5380.38'
1 - perf sub 2-7/8" x 4'	4.20'	5350.35'
1 - SN 2-7/8"	1.10'	5346.15'
18 - jts 2-7/8" EUE J-55 8rd 6.5#	561.98'	5345.05'
1 - tbg anchor 2-7/8" x 5-1/2" (TRICO)	2.75'	4783.07'
154 - jts 2-7/8" EUE J-55 8rd 6.5#	4770.32'	4780.32'
KB	10.00'	

Set tbg anchor w/11" tension (12000#). ND BOP, ND 5-M well head, NU 3-M well head. Flange up well head. SWIFD.

DC: \$18,797

CC: \$269,325

10/12/96

Completion

TIH w/production string (rods) as follows:

- 1 - DHP, 2-1/2" x 1-1/2" x 16' RHAC w/sm plunger (TRICO #1197)
- 1 - Pony 7/8" x 2' w/2-1/8" guide
- 1 - K-bar 1-1/2" x 25'
- 1 - Pony 7/8" x 2' w/2-1/2" guide
- 211 - 3/4" x 25' D Plain
- 1 - Pony 3/4" x 8'
- 1 - Pony 3/4" x 6'
- 1 - Polish rod 1-1/4" x 22'

Press test tbg & DHP 1000 psi, ok. SWI. RDMO.

DC: \$6,540

CC: \$275,865

10/22/96

Completion

Start well pumping @ 3:00 PM. 4-3/4 SPM, 88" stroke.

DC: \$13,189

CC: \$289,054

PROVINCING PRFS: 4292-4302

INJECTION PRFS: 4522-4560

4566-4604

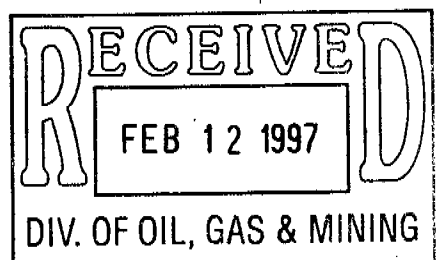
1. 2-3/8" TUBING

2. 3/4" RODS

3. 1-1/4" SINKER BARS

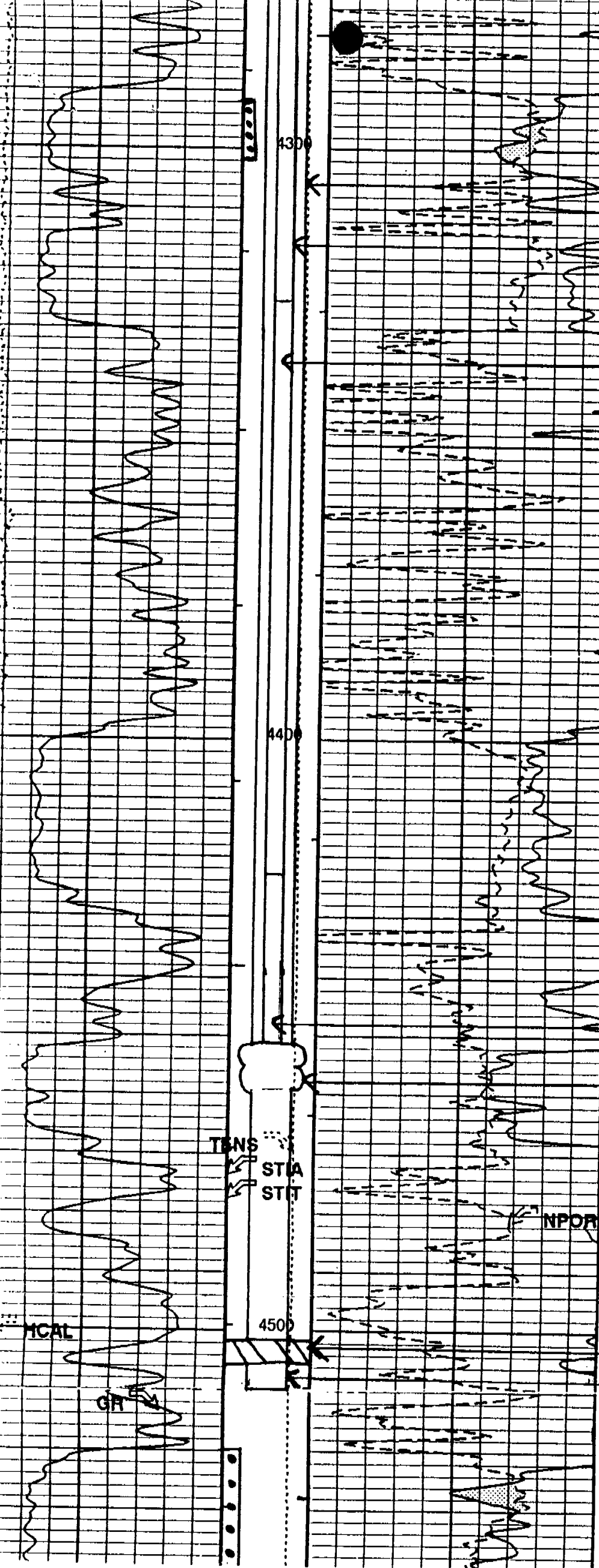
4. 2-1/2"X2-1/4"X18'X21'
TUBING PUMP

5. DHI TOOL (5V-304SS)



6. ELDER LOK-SET 4-1/2" PACKER

7. BALL&SEAT CHECK VALVE

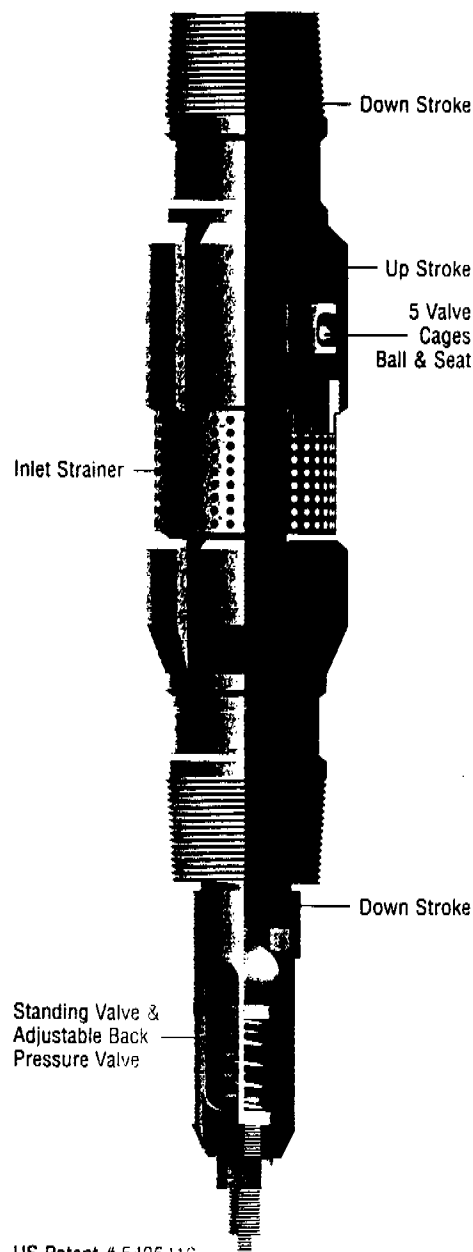


INTRODUCING... DOWN HOLE INJECTION TOOL

Technology and man's ingenuity have finally beaten the cost and environmentally sensitive problems of salt water disposal from gas wells.

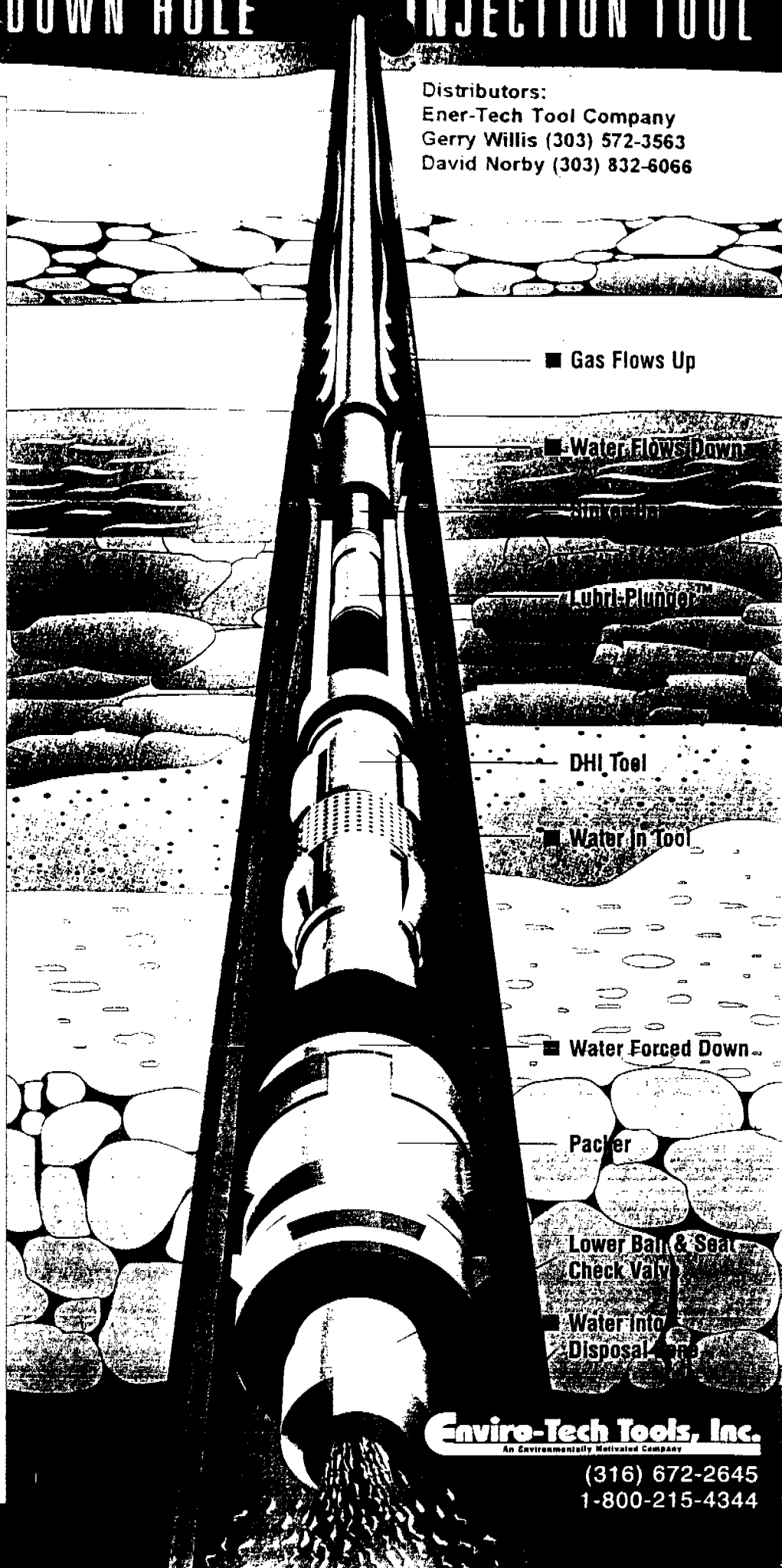
By injecting waste water into a lower zone of existing well bores, the Down Hole Injection Tool turns marginal producers into economic winners.

The need to use expensive disposal wells, either yours or somebody else's, is eliminated. So is the complexity of salt water removal at remote production sites where disposal wells are scarce and transportation costs are excessive.



US Patent # 5425416
Canadian Patent Pending

Distributors:
Ener-Tech Tool Company
Gerry Willis (303) 572-3563
David Norby (303) 832-6066



Enviro-Tech Tools, Inc.
An Environmentally Motivated Company

(316) 672-2645
1-800-215-4344

New Tool Disposes Water Down Hole

By Clarence Michael
and Anne D. Brown

PRATT, KS.—Environmental regulations governing the disposal of salt water produced from gas wells have become an economic burden for oil and gas companies, and even more stringent regulations may loom on the horizon. The escalating cost of disposing salt water co-produced from gas and oil wells (usually hauled by trucks for considerable distances) eats away at profit margins.

In some cases, the cost of disposing co-produced waters can make commercially-viable wells marginal or even uneconomical to produce. In most cases, drilling and equipping a separate disposal well is cost-prohibitive. Many wells are being shut in and scheduled for plugging as a direct result of water disposal costs. The bottom line is that countless dollars worth of production are lost, and many leases are never developed.

A new concurrent disposal-injection process allows a modified conventional downhole mechanical lift pump to displace, under pressure, large quantities of unwanted salt water down hole rather than up. The process pumps waste water into lower formations that are water-bearing, or that have sufficient porosity and permeability to accept waste water.

The technology allows operators to produce gas and dispose of water in the same well bore at the same time, eliminating water hauling and disposal well costs. Since waste water is never brought to the surface, concerns about contaminating fresh water resources and surface soil from fragile transport lines, leaks and over-flows from storage tanks are also eliminated.

Concurrent disposal-injection is not appropriate for all wells. Prospective wells require a porous or water-bearing formation below the production interval, and production casing should be set at a sufficient depth to cover the intended injection zone. However, the Oklahoma Conservation Commission has approved the method for use in one well to dispose water in an open hole without a liner. Both Oklahoma and Kansas are classifying this method as a Class II injection well, and as such they require underground injection control permits.

Test Wells

The prototype tool was run in October 1993 by American Warrior Inc. of Gar-

den City, Ks., in a Hugoton gas well located in Seward County, Ks. Before the tool and modified pump were installed in the well, it pumped 66 barrels of water by conventional means and flowed 102,666 cubic feet of gas a day from the casing. Casing pressure was approximately 100 pounds per square inch.

After installing the equipment, casing pressure was reduced to 50 psi line pressure, and an estimated 100 bbls of water a day was injected. An average gas sale of 136.29 Mcf/day was obtained over a 110-day test period, resulting in a net economic gain of nearly \$4,000 a month. Table 1 shows a comparison of data both before and after the pump and tool were installed. Kevin Wiles, American Warrior's production manager, says the technology

continues to work "fantastically well," relieving water disposal costs and environmental concerns while increasing production.

A used tension packer was run below the pump/tool assembly on the original installation. After eight months, the packer sheared and the tubing and pump assembly were pulled. The packer was replaced with a lock-set type with an on/off tool above. The working components of the pump and tool were inspected and showed no signs of wear.

National Oil Company, a sister company to American Warrior, installed the modified pump and tool in a well in Texas County, Ok., in February 1994. Before installing the equipment, production averaged 80 bbls of water and 220.459 Mcf

TABLE 1

American Warrior Performance Data

Company	Well Name	Location
American Warrior, Inc. P.O. Box 399 Garden City, Ks. 67846	Prater #1-26	Seward, Ks. Sec 26-32S 32W

Casing: 4 1/2"
Rods: 3/4"

Tubing: 2 3/8"
Pump Size: 1 3/4"

Production: Chase Group (2606-2684)

Disposal Depth: Lansing/Kansas City (4668-78) (4694-4707)

The following rates were furnished by American Warrior from monthly sales reports. The tool was installed on Oct. 19, 1993, at 1:45 p.m. By the morning of Oct. 23, American Warrior was selling 186 Mcf/day.

Before Installation

The last three months of production is used as daily "before" production rates.

Date	MMcf/month	Water	Days	Mcf/day
8/93	2,916	66 bbl/day	31	94.064
9/93	2,630	66 bbl/day	26	101.153
10/93	2,462	66 bbl/day	21	117.238

Total MMcf of 8,008 over 78 days=102.7 Mcf/day

After Installation

Date	MMcf/month	Water	Days	Mcf/day
1/93	3,457	0	26	132.9611
2/93	4,055	0	31	130.8060
1/94	3,593	0	25	143.7200
2/94	3,887	0	28	138.810

Total MMcf of 14,992 over 110 days=136.3 Mcf/day

Monthly and Annual Gross Income Gain (Before taxes and operations)

Before:	102.7 Mcf/day x \$1.75 x 30.5 days	\$5,479
	Water disposal cost	-2,013
	Monthly gross income	\$3,466
After:	136.3 Mcf/day x \$1.75 x 30.5 days	\$7,274
	Water disposal cost	-0
	Monthly gross income	\$7,274
	Monthly Gross Gain	\$3,808
	Estimated Annual Gross Gain	\$45,696

of gas a day flowing from the tubing. Production is from the Upper Morrow sand, and water is now being injected in open hole into the Lower Morrow sand. When the annulus water was pumped down, gas flow taken from gauge reports averaged 343 Mcf/day, and approximately 220 barrels of water were pumped into the injection zone.

As shown in Table 2, National Oil's net economic gain since installing the pump/tool assembly on the well is \$9,000 a month, and daily production increased an average of 123 Mcf/day.

The test wells both produce from for-

mations in the upper sections of gas/water formations, and it would appear that the water table could only be lowered down to the base of the perforated interval. A strong possibility exists that if the production zones were perforated at their base, the water table might be lowered down to that level. If these results could be obtained from zone/base perforations, it would seem logical that additional flow rates could be obtained, along with additional recoverable reserves which would be economically produced.

Support your local association.

TABLE 2

National Oil Company Performance Data

Company	Well Name	Location
National Oil Co. Garden City, Ks. 67846	Jackson #1 (Gas Well)	Texas County, Ok. 6-3N-15E
Casing: 4 1/2" Rods: 3/4" Tubing: 2 3/8" Pump size: 1 3/4"		
Production depth: Upper Morrow (6120-26) Disposal depth: Lower Morrow (6215-40)		
The following production data was supplied by National Oil Co. from the pumper's (Delbert Smith) daily gauge reports. The tool was operational on Feb. 25, 1994, at 4:30 p.m.		

Before Installation

Date	MMcf/month	Water	Mcf/day
10/93	6,854	80 bbl/day	221.096
11/93	4,907	80 bbl/day	163.366
12/93	6,594	80 bbl/day	212.064

Total MMcf of 18,355 over 92 days=199.5 Mcf/day

"Before" production rates are taken from the 10th and 12th months only:

Total MMcf of 13,448 over 61 days=220 Mcf/day

After Installation

Date	Water	Mcf/day	Date	Water	Mcf/day
2/26	0	25	3/12	0	313*
2/27	0	150	3/13	0	313*
2/28	0	200	3/14	0	313*
3/01	0	210	3/15	0	313*
3/02	0	(down) 200	3/16	0	313*
3/03	0	(down) 271	3/17	0	313*
3/04	0	(down) 244	3/18	0	313*
3/05	0	(down) 249	3/19	0	318
3/06	0	327	3/20	0	309
3/07	0	345	3/21	0	(down) 140
3/08	0	(down) 232	3/22	0	335
3/09	0	302	3/23	0	343
3/10	0	351	3/24	0	351
3/11	0	328			

* Pumper averaged from 3/12-3/18

Note: For much of this period, the pumper was not using a sufficiently fast stroke to utilize the tool optimally. This problem was corrected on 3/21. Therefore, for purposes of these calculations, the average of the last three days is used.

Total MMcf of 1029 over 3 days=343 Mcf/day

**Monthly and Annual Gross Income Gain
(Before taxes and operations)**

Before:	220 Mcf/day x \$1.75 x 30.5 days	\$11,742
	Water disposal cost	-2,440
	Monthly gross income	\$ 9,302
After:	343 Mcf/day x \$1.75 x 30.5 days	\$18,307
	Water disposal cost	- 0
	Monthly gross income	\$18,307
	Monthly Gross Gain:	\$9,002
	Estimated Annual Gross Gain:	\$108,060

Uses Existing Equipment

Existing standard equipment is utilized in the disposal method. An insert or tubing pump is modified and run in conjunction with the tool assembly, which simply causes fluid to be pumped down rather than up. The valves are removed from the plunger, and a bull plug is installed at its base. Valves are positioned in the annulus area between the tool and casing. An adjustable back-pressure valve is connected at the base of the tool and becomes its standing valve.

The back-pressure valve is preset to open at a pressure slightly greater than casing pressure, so if fluid were pumped off, gas would not "U-tube" through the tool into low-pressure injection zones.

It is recommended that a lock-set packer with an on/off tool be used to isolate production formations from injection zones. A spring-loaded snubber cage is installed at the base of the packer to permit tubing and tool assembly to be removed for servicing, and to prevent injection zone fluid from kicking up through casing.

The tool is constructed of 304-stainless steel, including valve cages, springs and back-pressure valve (Figure 1). Carbide seats are recommended. Design simplicity and the use of standard working parts make it easily serviced in the field.

The force required to pump down into disposal zones does not rely on either gas pressure or casing gravitational forces. The pump barrel simply loads on the upstroke of the pumping unit, and the weight of the tubing fluid and sucker rods provide the force to push the plunger down, creating a positive mechanical displacement. The power required to drive the pumping unit is not relative to the amount of water injected because tubing fluid and rod weight never change—whether 50 barrels or 500 barrels are pumped.

It is a good idea to use a water/polymer mix with the proper corrosion inhibitor as tubing fluid. Because the plunger will have some slippage of fluid necessary for lubrication, a small tank can be placed close to the well head and connected to a flow tee. Fluid gravitates into the tubing as needed, and the tank receives water displaced on the upstroke.

When pumping/disposal begins, it is important to monitor back-side fluid as it is being lowered. When fluid is pumped off, the design of the pump/tool allows it to compress gas into injection zones. Because no gas can get by the plunger or back-pressure (standing) valve, the pump design eliminates gas locking.

A number of methods may be used to monitor the desired fluid level above the pump, including echo-meters, dynamometers, gas flow charts or simply watching

for fluid pounds. A variable-speed motor is recommended in order to maintain the correct strokes needed per minute without changing sheaves. The design of the pump/tool allows a considerable amount of sand to be pumped since sand cannot get on top of the plunger.

Oil Production

To use the disposal method for oil production, casing needs to be of a size that allows two strings of tubing to be used. Two pumping units are required: one to dispose of water and a second, smaller unit to pump oil to the surface. The oil string should be set at a sufficient depth to skim oil separated from water. Ideally, two-three percent of water should be pumped to surface to assure operators that all available oil has been removed, simply increasing or decreasing pumping

unit strokes to maintain separation control.

Water flooding of gas-drive oil pools can be accomplished with the pump/tool design. After selecting a pumping well to be used as the injection well, a known, compatible water-bearing formation above is perforated and the packer is positioned between the source water and the producing formation. By using this method, an existing well becomes the water source and existing equipment become the pump/pressure system.

This water disposal method should prolong the life of lifting equipment and downhole tubular goods. It is estimated that lifting load requirements are approximately 25 percent less by lifting and lowering tubing fluid columns rather than pumping fluid through surface lines and up into tanks. The corrosion of the inside diameter of tubing and sucker rods is

actually eliminated by the ability to maintain a constant sufficient water/inhibitor mixture, and adding friction-reducing agents to the mixture reduces wear.

Casing inside diameter and tubing outside diameter can be treated by simply shutting off gas flow and pumping the required amount of treatment fluid down the casing, giving it sufficient time to fall to bottom, and then resuming the gas flow. No production time is lost by not circulating the fluid through tubing, and a considerable amount of savings can be realized on chemical costs.

Water volumes of 400-600 bbls/day can be obtained in 4.5-inch casing, and 800-1,200 bbls/day is possible in 5.5-inch casing. Special-order pump tools can be built to pump larger amounts, but long-stroke pumping units should be used on all applications. Injection pressures of 1,000-1,200 psi per thousand feet of well



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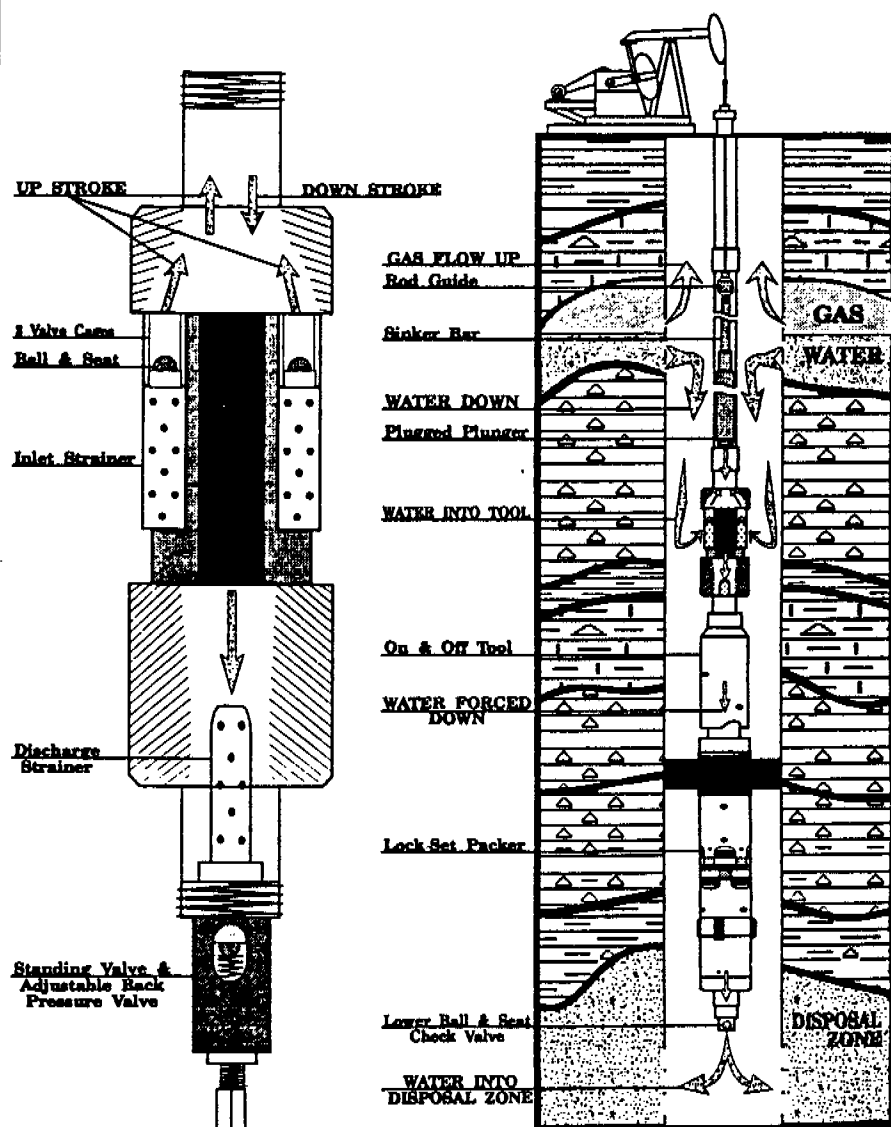


**ANNE D.
BROWN**

Anne D. Brown is a field engineer/industrial marketing specialist for Mid-America Manufacturing Technology Center (MAMTC) in Garden City, Ks. She draws on over 15 years of industrial and engineering experience to bring MAMTC's services to manufacturers in western Kansas. She holds an A.B. degree from Lewis & Clark College.

FIGURE 1

Tool Design And Well Configuration





depth may be obtained without requiring weighted rod and strings. A minimum of two sinker bars is recommended directly above the pump, with rod guides for stabilization, to reduce plunger wear.

Simultaneously producing gas while disposing of water by positive mechani-

cal displacement in the same well bore offers many desirable features for both short- and long-term environmental and economic benefits. They include:

- Preventing contamination of fresh water resources and surface soil;
- Eliminating water disposal hauling

expenses;

- Restoring non-economic and marginal wells back to production;
- Maximizing profitability;
- Encouraging future exploration;
- Removing environmental problems associated with water disposal. □

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

3. Lease Designation and Serial No.

UTU-75206

6. If Indian, Allottee or Tribe Name

--

7. If Unit or CA, Agreement Designation

--

8. Well Name and No.

CENTER FORK F 17-4

9. API Well No.

43-047-32750

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

FREEDOM ENERGY, INC.

3. Address and Telephone No.

1050 17th. St. Ste. 710, DENVER, CO. 80265 (303) 592-3022

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

580'FWL, 688'FNL NW/NW SEC.17, T12S, R24E

13. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Install and test DHI tool.
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
FEI is requesting permission to test a Down Hole Injection Tool. (DHI) in this well.

Water would be injected into a MesaVerde formation that tested wet from 4522-4528' on 11-1-96. A water sample is enclosed. The producing zone is a Mesa Verde formation from 4292'-4302'. This zone tested between 300 and 600 mcf with 108 bbls of water per day on 11-1-11-2-96. Wter sample enclosed.

We will perf. 4528-4560', 4 s.p.f; 4566'-4604' 4 s.p.f. Break formations down with 1000 gal. 7-1/2% HCL. and perform a rate test. The DHI tool will be installed in the well with an Elder Lok-Set packer set @ 4500' isolating the producing zone from the injection zone. A check valve is run below the packer.

Gas is produced up the annulus and water is injected into the lower formations o the down stroke of the pump.

We also request permission to test gas to the pit for a period of 1 month to tes the well and the injection tool before laying line to our gathering system.

ECLOSED: Tool information, well diagram, water samples.

14. I hereby certify that the foregoing is true and correct

Signed Paul Frank

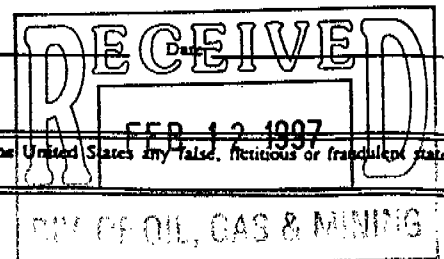
Title Vice-President

Date 2-8-97

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 2-12-97



Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to transmit false information to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

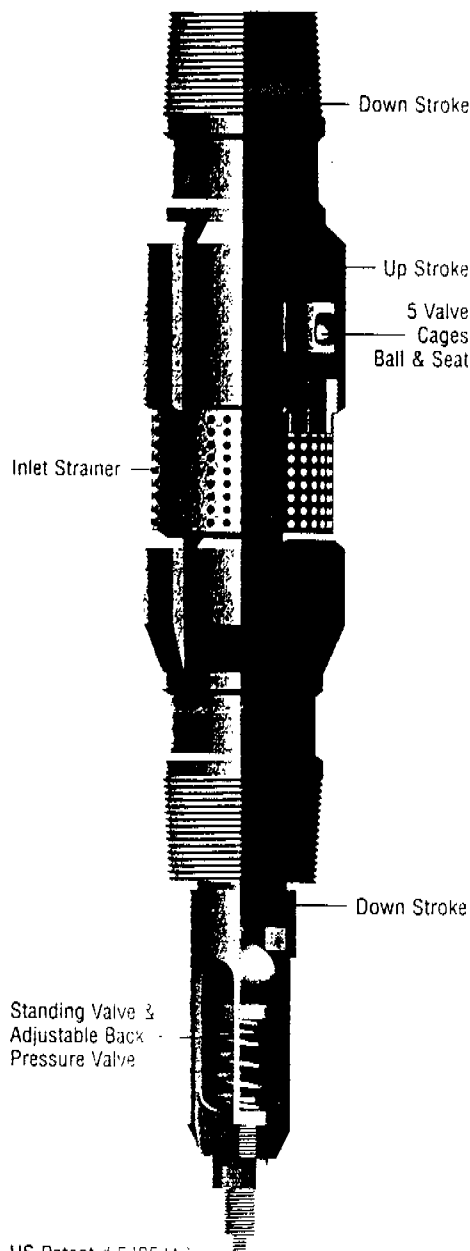
INTRODUCING... DOWN HOLE INJECTION TOOL

Technology and man's ingenuity have finally beaten the cost and environmentally sensitive problems of salt water disposal from gas wells.

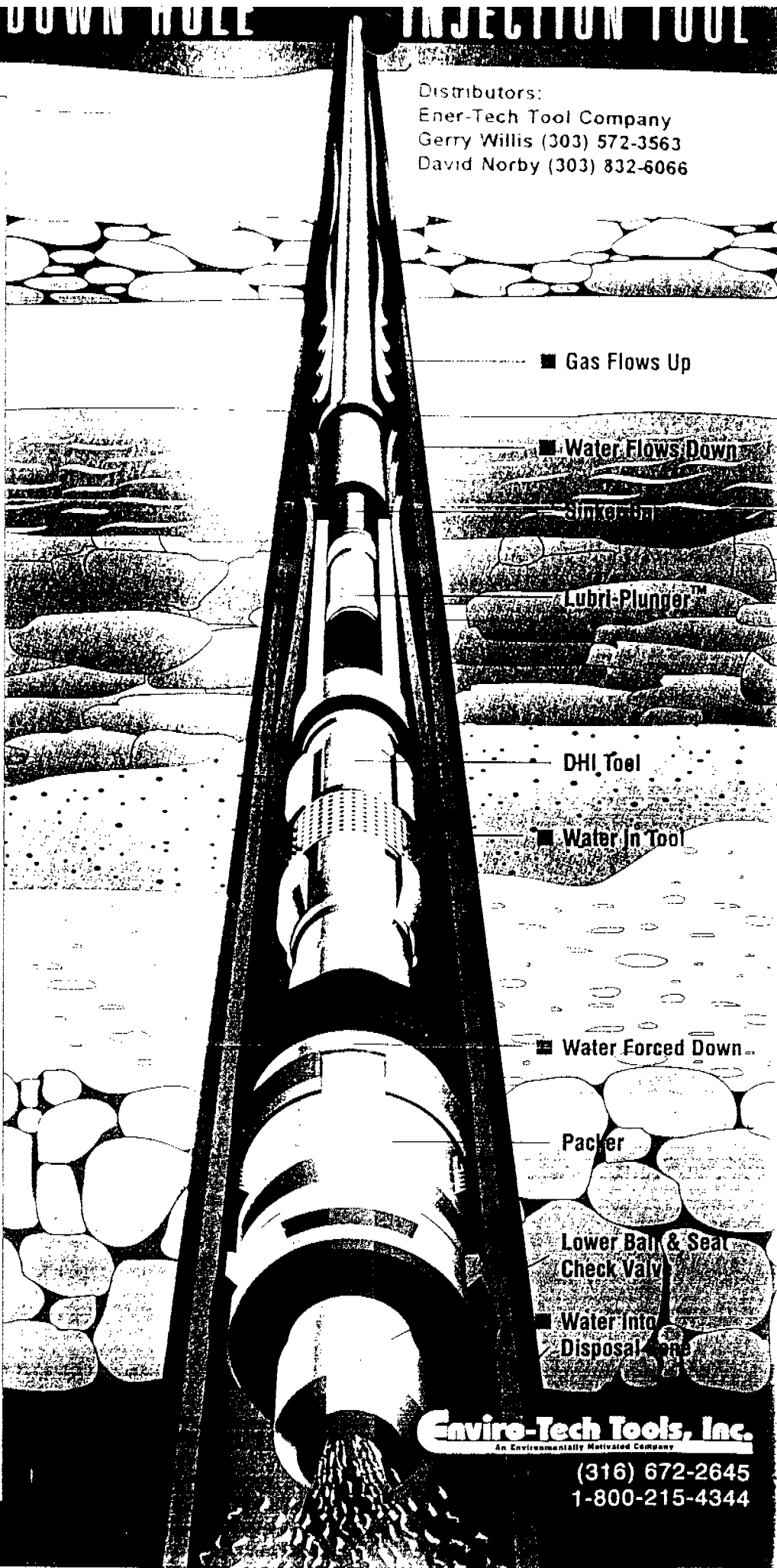
By injecting waste water into a lower zone of existing well bores, the Down Hole Injection Tool turns marginal producers into economic winners.

The need to use expensive disposal wells, either yours or somebody else's, is eliminated. So is the complexity of salt water removal at remote production sites where disposal wells are scarce and transportation costs are excessive.

Distributors:
Ener-Tech Tool Company
Gerry Willis (303) 572-3563
David Norby (303) 832-6066



US Patent # 5425416
Canadian Patent Pending



Enviro-Tech Tools, Inc.
An Environmentally Motivated Company

(316) 672-2645
1-800-215-4344

New Tool Disposes Water Down Hole

By Clarence Michael
and Anne D. Brown

PRATT, KS.—Environmental regulations governing the disposal of salt water produced from gas wells have become an economic burden for oil and gas companies, and even more stringent regulations may loom on the horizon. The escalating cost of disposing salt water co-produced from gas and oil wells (usually hauled by trucks for considerable distances) eats away at profit margins.

In some cases, the cost of disposing co-produced waters can make commercially-viable wells marginal or even uneconomical to produce. In most cases, drilling and equipping a separate disposal well is cost-prohibitive. Many wells are being shut in and scheduled for plugging as a direct result of water disposal costs. The bottom line is that countless dollars worth of production are lost, and many leases are never developed.

A new concurrent disposal-injection process allows a modified conventional downhole mechanical lift pump to displace, under pressure, large quantities of unwanted salt water down hole rather than up. The process pumps waste water into lower formations that are water-bearing, or that have sufficient porosity and permeability to accept waste water.

The technology allows operators to produce gas and dispose of water in the same well bore at the same time, eliminating water hauling and disposal well costs. Since waste water is never brought to the surface, concerns about contaminating fresh water resources and surface soil from fragile transport lines, leaks and over-flows from storage tanks are also eliminated.

Concurrent disposal-injection is not appropriate for all wells. Prospective wells require a porous or water-bearing formation below the production interval, and production casing should be set at a sufficient depth to cover the intended injection zone. However, the Oklahoma Conservation Commission has approved the method for use in one well to dispose water in an open hole without a liner. Both Oklahoma and Kansas are classifying this method as a Class II injection well, and as such they require underground injection control permits.

Test Wells

The prototype tool was run in October 1993 by American Warrior Inc. of Gar-

den City, Ks., in a Hugoton gas well located in Seward County, Ks. Before the tool and modified pump were installed in the well, it pumped 66 barrels of water by conventional means and flowed 102,666 cubic feet of gas a day from the casing. Casing pressure was approximately 100 pounds per square inch.

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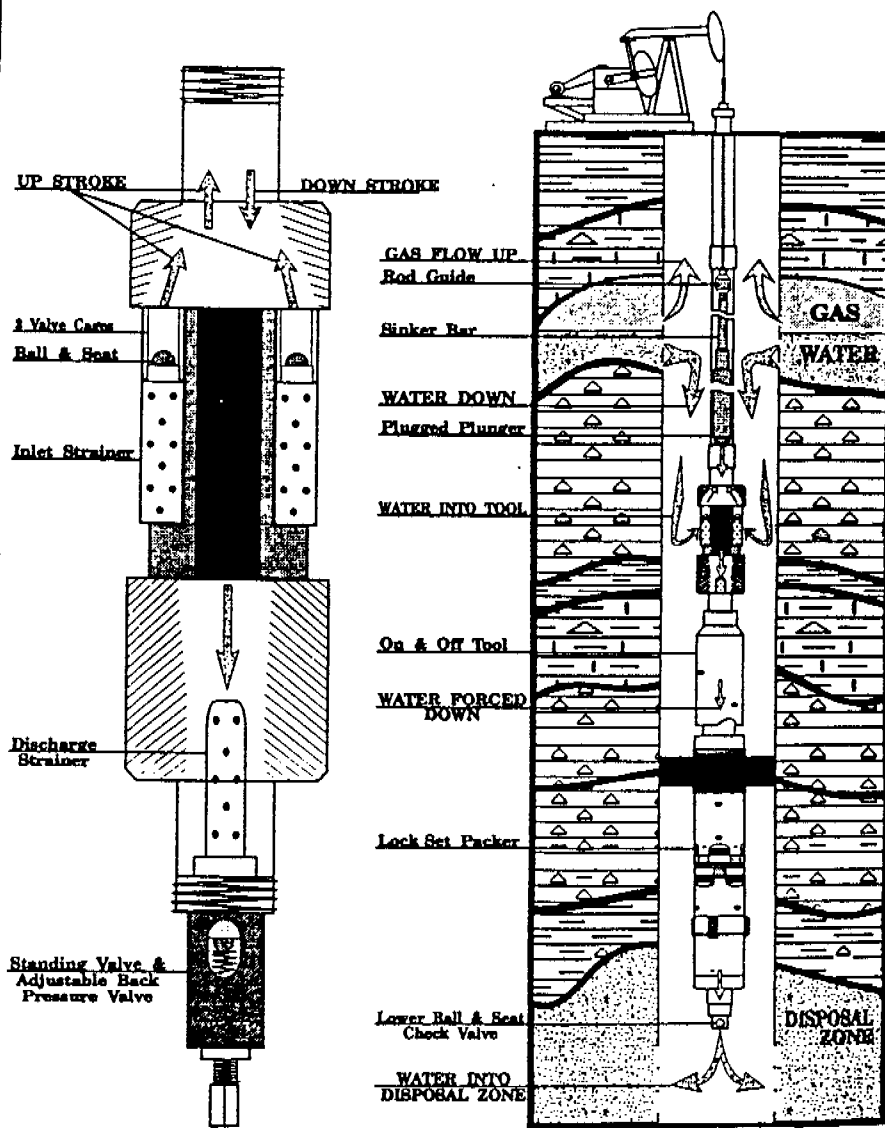


**ANNE D.
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FIGURE 1

Tool Design And Well Configuration



DAVE BURGER

BJ SERVICES

Water Analysis Worksheet

OPERATOR: Freedom
FIELD: _____
DEPTH: 4292-4302
DATE SAMPLED: 11/4/86
COUNTY: Clinton
WORKED BY: Dave Binger

ANALYSIS #: 1
WELL NAME: Center Fork 17-19
FORMATION: _____
SUBMITTED BY: Paul Franks
DATE RECEIVED: 10/14/86
STATE: MT

SAMPLE DESCRIPTION: Clear Water Filtered to Clear

REMARKS: _____

SPECIFIC GRAVITY: 1.000 TEMP.: 22 pH: 8.5

This program requires that the molarity of EDTA and the ML of sample be the same for Calcium and Total Hardness. This is in order to be able to calculate Magnesium.

Molarity of EDTA: 0.01 ML of Sample: 2 (Used in Ca & Hardness)

ML of EDTA used in Calcium: 0.3 ML of EDTA used in Hardness: 0.40

Resistivity: 10+ (OHMS/METER)

Chloride: ML of Silver Nitrate: 0.5
Normality of AgNO₃: 0.564

ML of Sample: 5

Bicarbs: ML of HCl: 2.6
Normality of HCl: 0.10

ML of Sample: 5

Sulfate: Turbidimetric Method
0 MG/L

Phosphate: 0 MG/L

Iron: 0 MG/L

Potassium: 100 MG/L

If K was not determined, do you suspect the material to be:

Mainly Na (Y/N)?

Mainly K (Y/N)?

Half of Both?

K

Carbohydrates: ND PPTG

NOTE: For Phosphate, Iron, and Potassium if there is none detected enter '0' on that field.
If it was Not Determined enter 'ND' on that field.

(920) 381-0395

BJ SERVICES COMPANY

WATER ANALYSIS #VR03W188

VERNAL LAB

GENERAL INFORMATION

OPERATOR:	FREEDOM ENGERY	DEPTH:	4522-4528
WELL:	CENTER FORK 17Y	DATE SAMPLED:	10/30/96
FIELD:		DATE RECEIVED:	10/30/96
SUBMITTED BY:	PAUL FRANKS	COUNTY:	UINTAH
WORKED BY	:TEX GIESE	STATE:	UT
PHONE NUMBER:	970-381-0395	FORMATION:	MESA VERDE

4522'-4528' *Int. zone*

SAMPLE DESCRIPTION

CLOUDY DARK H2O FILTERED CLEAR

PHYSICAL AND CHEMICAL DETERMINATIONS

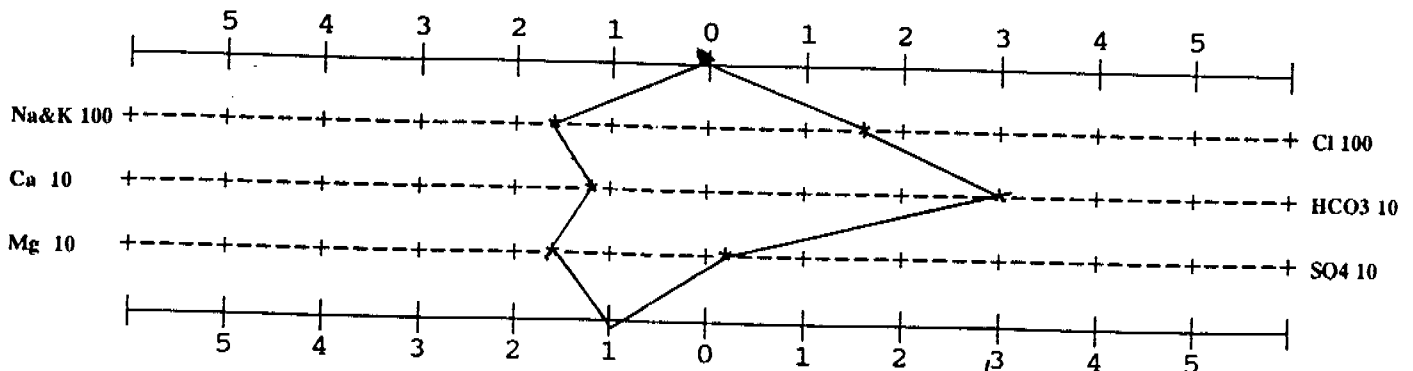
SPECIFIC GRAVITY:	1.005	@ 70°F	PH:	7.00
RESISTIVITY (MEASURED):	0.300	ohms @ 70°F		
IRON (FE++) :	25 ppm	SULFATE:		80 ppm
CALCIUM:	259 ppm	TOTAL HARDNESS		1,493 ppm
MAGNESIUM:	206 ppm	BICARBONATE:		1,821 ppm
CHLORIDE:	5,969 ppm	SODIUM CHLORIDE (Calc)		9,819 ppm
SODIUM+POTASS:	6,634 ppm	TOT. DISSOLVED SOLIDS:		15,997 ppm
IODINE:		POTASSIUM CHLORIDE:	1500	1.2%

REMARKS

NO H2S PRESENT

INJECTION ZONE

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

Tex Giese
TEX GIESE

PRODUCING PRFS: 4292-4302

INJECTION PRFS: 4522-4560

4566-4604

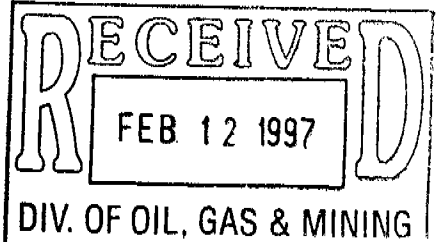
1. 2-3/8" TUBING

2. 3/4" RODS

3. 1-1/4" SINKER BARS

4. 2-1/2"X2-1/4"X18'X21'
TUBING PUMP

5. DHI TOOL (5V-304SS)



6. ELDER LOK-SET 4-1/2" PACKER

7. BALL&SEAT CHECK VALVE

4300

4400

TENS
STIA
STIT

NPOR

4500

HCAL

GH



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

February 19, 1997

Freedom Energy, Incorporated
1050 17th Street, Suite 710
Denver, Colorado 80265

Re: Down Hole Injection Test and Gas Flaring, Center Fort F 17-4
Well, Sec. 17, T. 12 S., R. 24 E., Uintah County, Utah

Gentlemen:

The Division has reviewed your application to test the subject well utilizing a down hole arrangement for transferring water to another zone and producing gas to the pit. In accordance with the Oil and Gas Conservation General Rules, Utah Adm. Code R649-3-19, Well Testing and R649-3-20, Gas Flaring or Venting, your application is hereby approved for a one month test period. All data pertinent to the test shall be submitted to the Division within 15 days following completion of the test.

If results of the test are such that your company desires to continue production with this down hole arrangement it will be necessary to obtain a permit for underground injection and conversion of the well to a Class II injection well. This application can be made in accordance with Utah Adm. Code R649-5, Underground Injection Control of Recovery Operations and Class II Injection Wells.

Please contact this office if we can be of further assistance in this matter.

Sincerely,

R. J. Pirth

Associate Director, Oil & Gas

Enclosures

cc: BLM, Vernal District



June 11, 1997

John Baza
State Division Oil, Gas & Mining
1594 W. N. Temple
Ste.1210
Salt Lake City, Utah

Dear John,

Please release well information to Bob Ballou on Freedom Energy Inc.'s Center Fork #17-4 well in Uintah County, Utah.

If this is a problem please call me at 303-592-3022 Ext. 304.

Sincerely,

Steve Shefte
Exploration Manager

H:\STEVE\LETTER\UTAH wpd

Freedom Energy, Inc.

1050 17th Street, Suite 710, Denver, Colorado 80265

FAX COVER SHEET

Date: JUNE 11 1997

From: STEVE SHEETS

Phone Number: (303) 592-3022 ext.

(303) 592-2988 FAX

To: JOHN BAZA

Number of pages to follow: 1

Company: STATE UTAH

Fax Number: 801-359-3940

Comments:

my # is 303-592-3022 EXT 304.

THANKS,

P.S. GO JAZZ

THIS FACSIMILE TRANSMISSION AND ANY ACCOMPANYING DOCUMENTS CONTAIN INFORMATION BELONGING TO THE SENDER WHICH MAY BE CONFIDENTIAL AND LEGALLY PRIVILEGED. THIS INFORMATION IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHOM THIS FACSIMILE TRANSMISSION WAS SENT AS INDICATED ABOVE. IF YOU ARE NOT THE INTENDED RECIPIENT, ANY COPYING, DISCLOSURE, DISTRIBUTION OR ACTION ON THE INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS FACSIMILE TRANSMISSION IN ERROR, PLEASE CALL US TO ARRANGE FOR THE RETURN OF THE DOCUMENTS TO US AT OUR EXPENSE. THANK YOU.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Page 1 of 1

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

FREEDOM ENERGY INC
 1050 17TH ST STE 710
 DENVER CO 80265

UTAH ACCOUNT NUMBER: N3285REPORT PERIOD (MONTH/YEAR): 12 / 97AMENDED REPORT ☐ (Highlight Changes)

Well Name API Number Entity Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
HANGING ROCK FEDERAL 24-13 4304732603 11723 11S 23E 24	WSTC			UTU 66408	Hanging Rock Unit	
THIMBLE ROCK FEDERAL 23-15 4304732604 11759 11S 24E 23	MVRD			U66761	Thimble Rock Unit	
HANGING ROCK FEDERAL I 1-16 4304732679 11889 12S 23E 1	WSTC			U57455	Hanging Rock Unit	
HANGING ROCK FEDERAL I 12-4 4304732748 11889 12S 23E 12	WSTC			U57455	"	
HANGING ROCK FEDERAL F 7-6 4304732751 11889 12S 24E 7	WSTC			UTU 66426	"	
HANGING ROCK FEDERAL I 1-14 4304732871 11889 12S 23E 1	WSTC			U57455	"	
Y FEDERAL F 6-15 4304732757 12037 12S 24E 6	WSTC			U08424A		
CENTER FORK F 17-4 4304732750 12038 12S 24E 17	WSMVD			UTU 75206		
TUCKER FEDERAL F 8-4 4304732872 12125 12S 24E 8	WSTC			UTU 70239		
Tucker Federal F 8-2 4304732993 9999 12S 24E 8	DPL			UTU 70239		
TOTALS						

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

1-LEC	6-LEC
2-GLH	7-KAS
3-DTS	8-SI
4-VLD	9-FILE
5-JRB	

☒ Change of Operator (well sold)☐ Designation of Agent☐ Designation of Operator☐ Operator Name Change OnlyThe operator of the well(s) listed below has changed, effective: 1-1-98

TO: (new operator) ROSEWOOD RESOURCES INC
 (address) 100 CRESCENT COURT #500
DALLAS TX 75201

FROM: (old operator)
 (address)

FREEDOM ENERGY INC
1050 17TH ST STE 710
DENVER CO 80265

Phone: (214)871-5718Account no. N7510Phone: (303)592-3022Account no. N3285

WELL(S) attach additional page if needed:

Name: <u>TOBY FED F 6-15/WSTC</u>	API: <u>43-047-32757</u>	Entity: <u>12037</u>	S	<u>6</u>	T	<u>12S</u>	R	<u>24E</u>	Lease: <u>U08424A</u>
Name: <u>CENTER FORK F 17-4/WS</u>	API: <u>43-047-32750</u>	Entity: <u>12038</u>	S	<u>17</u>	T	<u>12S</u>	R	<u>24E</u>	Lease: <u>UTU75206</u>
Name: <u>TUCKER FED F 8-4/WSTC</u>	API: <u>43-047-32872</u>	Entity: <u>12125</u>	S	<u>8</u>	T	<u>12S</u>	R	<u>24E</u>	Lease: <u>UTU70239</u>
Name: <u>TUCKER FED F 8-2/DRL</u>	API: <u>43-047-32993</u>	Entity: <u>99999</u>	S	<u>8</u>	T	<u>12S</u>	R	<u>24E</u>	Lease: <u>UTU70239</u>
Name: _____	API: _____	Entity: _____	S	_____	T	_____	R	_____	Lease: _____
Name: _____	API: _____	Entity: _____	S	_____	T	_____	R	_____	Lease: _____
Name: _____	API: _____	Entity: _____	S	_____	T	_____	R	_____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- ✓ 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(Rec'd 1-21-98)*
- ✓ 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(Reg 1-28-98) (Rec'd 3-9-98)*
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) ____ If yes, show company file number: _____
- ✓ 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- ✓ 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(3-24-98)*
- ✓ 6. **Cardex** file has been updated for each well listed above. *(3-24-98)*
- ✓ 7. Well **file labels** have been updated for each well listed above. *(3-24-98)*
- ✓ 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(3-24-98)*
- ✓ 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Y*
KE 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A*
KE 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- N/A*
KE 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- __ 2. A copy of this form has been placed in the new and former operator's bond files.
- __ 3. The FORMER operator has requested a release of liability from their bond (yes/no) ____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A*
KE 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A*
KE 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 ____, of their responsibility to notify all interest owners of this change.

FILMING

- Y*
KE 1. All attachments to this form have been microfilmed. Today's date: 4-27-98.

FILING

- CHD* 1. Copies of all attachments to this form have been filed in each well file.
- CHD* 2. The original of this form, and the original attachments are now being filed in the Operator Change file.

COMMENTS

980324 Bfm/Vernal Aprv. 3-19-98.

980410 Unable to get doc. for 8-2 fr. Freedom Energy.

(June 1990)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE**1. Type of Well**

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator*FREEDOM ENERGY, INC.***3. Address and Telephone No.***1050 17TH. ST. STE. 710 DENVER, CO. 80265 (303) 592-3022***4. Location of Well (Footage, Sec., T., R., M., or Survey Description)***580' FWL, 688' FNL NW/NW SEC.17-T12S-R24E***5. Lease Designation and Serial No.***UTU-75206***6. If Indian, Allottee or Tribe Name***N/A***7. If Unit or CA, Agreement Designation***N/A***8. Well Name and No.***CENTER FORK F 17-4***9. API Well No.***43-047-32750***10. Field and Pool, or Exploratory Area***Wildcat***11. County or Parish, State***Uintah County, Utah***12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA****TYPE OF SUBMISSION**

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
- ☐ Recompletion
- ☐ Plugging Back
- ☐ Casing Repair
- ☐ Altering Casing
- ☒ Other CHANGE OF OPERATOR
- ☐ Change of Plans
- ☐ New Construction
- ☐ Non-Routine Fracturing
- ☐ Water Shut-Off
- ☐ Conversion to Injection
- ☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that Rosewood Resources, Inc., Ste. 500, 100 Crescent Court, Dallas, Texas, 75201, is considered to be the operator of the Center Fork F 17-4-T12S-R24E; Lease# UTU-75206;

Uintah County, Utah; and is responsible under the terms and conditions of the lease for the operations

conducted upon the leased lands. Bond coverage is provided by Rosewood Resources, Inc.

Bond # UT-0627

14. I hereby certify that the foregoing is true and correct

Signed

*Paul Franks*Title *Vice-President*Date *01/01/98*

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instructions on Reverse Side**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

ROSEWOOD RESOURCES, INC.

3. Address and Telephone No.

P.O. Box 1668, Vernal, UT 435-789-0414

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW/NW T12S, R24E, SECTION 17

5. Lease Designation and Serial No.

UTU-75206

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

CENTER FORK F #17-4

9. API Well No.

43-047-32750

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH CO., UTAH

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

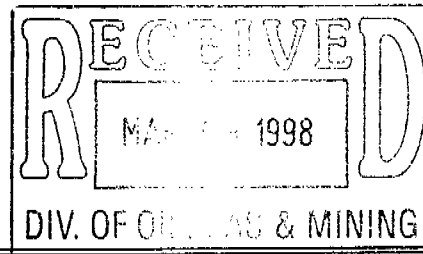
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other Change of Operator
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that effective 1/1/98, Rosewood Resources, Inc. is considered to be the operator of the Center Fork F #17-4, referenced above; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Certificate of Deposit, BLM Bond #UT-0627.



COPIES: ORIG. & 2-BLM; DIV. OG&M; J MCQUILLEN

14. I hereby certify that the foregoing is true and correct

Signed

Lucy Nemer

Title Administrative Assistant

Date 03/05/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

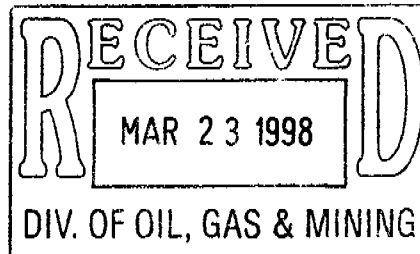
Vernal Field Office
170 South 500 East
Vernal, Utah 84078-2799

Phone: (435) 781-4400
Fax: (435) 781-4410

IN REPLY REFER TO:

3162.3
UT08300

March 19, 1998



Rosewood Resources, Inc.
Attn: Lucy Nemec
P O Box 1668
Vernal UT 84078

Re: Well No. Center Fork F 17-4
NWNW, Sec. 17, T12S, R24E
Lease U-75206
Uintah County, Utah

Dear Lucy:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Rosewood Resources, Inc. is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. MT0627, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (435) 781-4400.

Sincerely,

Howard B. Cleavinger II
Assistant Field Manager
Minerals Resources

cc: Freedom Energy Inc.
~~_____~~
Kidd Family Partnership
Security Energy Co.
St Anselm Exploration Co.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.
UTU-75206

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
CENTER FORK F #17-4

9. API Well No.
43-047-32750

10. Field and Pool, or Exploratory Area

11. County or Parish, State
UINTAH CO., UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
ROSEWOOD RESOURCES, INC.

3. Address and Telephone No.
P.O. Box 1668, Vernal, UT 435-789-0414

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW/NW T12S, R24E, SECTION 17

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

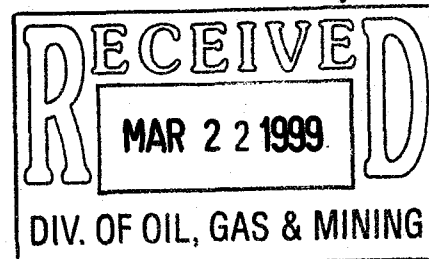
TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other SI STATUS
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Rosewood Resources is currently conducting a geological evaluation on all Uintah Basin properties and requests a one year extension of the Shut In status of the above referenced well. Rosewood is currently waiting on a Salt water Disposal Well permit.



COPIES: ORIG. & 2-BLM; DIV. OG&M; J MCQUILLEN

14. I hereby certify that the foregoing is true and correct

Signed

Luz Neme

Title Administrative Assistant

Date 03/16/99

(This space for Federal or State office use)

Approved by

Title

Accepted by the
Utah Division of
Oil, Gas and Mining

Conditions of approval, if any:

COPY SENT TO OPERATOR
Date: 3-25-99
Initials: CHD

Date: 3-24-99

By: *RAK*

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions on Reverse Side

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW ✓
3. FILE

X Change of Operator (Well Sold)

Designation of Agent

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **05-01-2002**

FROM: (Old Operator):	TO: (New Operator):
ROSEWOOD RESOURCES INC	MCELVAIN OIL & GAS PROPERTIES INC
Address: P O BOX 1668	Address: 1050 17TH STREET, STE 1800
VERNAL, UT 84078	DENVER, CO 80265-1801
Phone: 1-(435)-789-0414	Phone: 1-(303)-893-0933
Account No. N7510	Account No. N2100

CA No.

Unit:

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
ROSEWOOD FEDERAL 28-8	19-11S-22E	43-047-32840	12442	FEDERAL	GW	P
ROSEWOOD FEDERAL H 22-16	22-11S-23E	43-047-33186	12558	FEDERAL	GW	TA
ROSEWOOD 5-6	05-12S-22E	43-047-33132	12450	FEDERAL	GW	P
HANGING ROCK FEDERAL I 1-4	01-12S-23E	43-047-32855	12389	FEDERAL	GW	P
HANGING ROCK FEDERAL I 10-13	10-12S-23E	43-047-33098	12429	FEDERAL	GW	S
HANGING ROCK FEDERAL I 12-12	12-12S-23E	43-047-33096	12427	FEDERAL	GW	S
HANGING ROCK I 12-9	12-12S-23E	43-047-33101	12396	FEDERAL	GW	S
HANGING ROCK I 15-7	15-12S-23E	43-047-33099	12428	FEDERAL	GW	S
TOBY FEDERAL F 6-15	06-12S-24E	43-047-32757	12037	FEDERAL	GW	P
TUCKER FEDERAL F 8-2	08-12S-24E	43-047-32993	12386	FEDERAL	GW	P
TUCKER FEDERAL F 8-4	08-12S-24E	43-047-32872	12125	FEDERAL	GW	P
CENTER FORK FEDERAL 17-4	17-12S-24E	43-047-32750	12038	FEDERAL	GW	S

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 04/29/2002
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 04/29/2002
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 07/03/2002
- Is the new operator registered in the State of Utah: YES Business Number: 5078926-0143
- If **NO**, the operator was contacted on: N/A
- (R649-9-2) Waste Management Plan received on: IN PLACE
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 06/18/2002

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/18/2002

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 07/05/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 07/05/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 1268

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER _____

2. NAME OF OPERATOR:
MCELVAIN OIL & GAS PROPERTIES, INC.

3. ADDRESS OF OPERATOR: 1050 17th Street CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 893-0933

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

5. LEASE DESIGNATION AND SERIAL NUMBER:

See Attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

COUNTY:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 5/1/2002	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER:
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

McElvain Oil & Gas Properties, Inc. will take over as operator of the attached wells from Rosewood - effective 5/1/2002.

Bond # RLB0004154

Operator # N2100

RECEIVED

APR 29 2002

DIVISION OF
OIL, GAS AND MINING

Name Gary Taraba

Title Vice President Rosewood Resources, Inc.

Signature Gary Taraba

Date 4/23/02

NAME (PLEASE PRINT) John D. Steuble

TITLE Engineering Manager McElvain O & G Properties

SIGNATURE John D. Steuble

DATE 4/16/02

(This space for State use only)

API #	FED #	POOL #	COUNTY	LEGAL	WELL NAME
43-047-32871	UTU-57455	OIL SPRINGS	UNITAH	1 12S 23E SESW	HANGING ROCK FED I # 1-14 WS
43-047-32855	UTU-57455	OIL SPRINGS	UNITAH	1 12S 23E NWNW	HANGING ROCK I # 1-4 WS
43-047-32679	UTU-57455	OIL SPRINGS	UNITAH	1 12S 23E SESE	HANGING ROCK FED I # 1-16
43-047-33098	UTU-57455	OIL SPRINGS	UNITAH	10 12S 23E NESW	HANGING ROCK I # 10-13 WS
43-047-32935	UTU-57455	OIL SPRINGS	UNITAH	11 12S 23E SENE	HANGING ROCK I # 11-8 (WSMVD)
43-047-32936	UTU-57455	OIL SPRINGS	UNITAH	12 12S 23E NWNE	HANGING ROCK I # 12-2
43-047-33096	UTU-57455	OIL SPRINGS	UNITAH	12 12S 23E NWSW	HANGING ROCK I # 12-12 WS
43-047-33101	UTU-57455	OIL SPRINGS	UNITAH	12 12S 23E NESE	HANGING ROCK I # 12-9 WS
43-047-32748	UTU-57455	OIL SPRINGS	UNITAH	12 12S 23E NWNW	HANGING ROCK I # 12-4
43-047-33099	UTU-57455	OIL SPRINGS	UNITAH	15 12S 23 E SWNE	HANGING ROCK I # 15-7
43-047-33100	UTU-66426	OIL SPRINGS	UNITAH	7 12S 24E NWSE	HANGING ROCK F # 7-10
43-047-32937	UTU-66426	OIL SPRINGS	UNITAH	7 12S 24E SENE	HANGING ROCK F # 7-8
43-047-32751	UTU-66426	OIL SPRINGS	UNITAH	7 12S 24E SENW	HANGING ROCK F # 7-6
43-047-32872	UTU-70239	OIL SPRINGS	UNITAH	8 12S 24E NWNW	TUCKER FEDERAL F # 8-4
43-047-32993	UTU-70239	OIL SPRINGS	UNITAH	8 12S 24E NWNE	TUCKER FEDERAL F # 8-2
43-047-33132	UTU-73019	BUCK CANYON	UNITAH	5 12S 22E SENW	ROSEWOOD # 5-6
43-047-32604	UTU-66761	ASPHALT WASH	UNITAH	23 11S 24E SESE	THIMBLE ROCK FED # 23-15
43-047-32757	UTU-08424-A	OIL SPRINGS	UNITAH	6 12S 24E SWSE	TOBY FEDERAL F # 6-15
43-047-32840	UTU-65355	BUCK CANYON	UNITAH	19 11S 22E NESE	ROSEWOOD FED # 28-8
43-047-32603	UTU-66408	ROCK HOUSE	UNITAH	24 11S 23E SWSW	HANGING ROCK # 24-13
43-047-32750	UTU-75206	OIL SPRINGS	UNITAH	17 12S 24E NWNW	CENTER FORK FED # 17-4
43-047-33186	UTU-66409	ROCK HOUSE	UNITAH	22 11S 23E SESE	ROSEWOOD FED H # 22-16



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal Field Office
170 South 500 East

Vernal, Utah 84078-2799

<http://www.blm.gov/utah/vernal>

Phone: (435) 781-4400

Fax: (435) 781-4410

IN REPLY REFER TO:

3162.3

UT08300

June 24, 2002

McElvain Oil & Gas Properties, Inc.
1050 17th Street, Suite 1800
Denver, Colorado 80265

Re: Well No. Center Fork F 17-4
NWNW, Sec. 17, T12S, R24E
Uintah County, Utah
Lease No. UTU-75206

Gentlemen:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, McElvain O&G Properties, Inc. is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. UT1268, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Leslie Walker or Pat Sutton of this office at (435) 781-4400.

Sincerely,

Edwin I. Forsman
Petroleum Engineer

cc: UDOGM – Jim Thompson
Rosewood Resources

RECEIVED

JUL 01 2002

DIVISION OF
OIL, GAS AND MINING

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING

1. CDW

Change of Operator (Well Sold)

X - Operator Name Change

The operator of the well(s) listed below has changed, effective:

8/11/2011

FROM: (Old Operator):

N2100-McElvain Oil & Gas Properties, Inc.
 1050 17th Street, Suite 2500
 Denver, CO 80265

Phone: 1 (303) 893-0933

TO: (New Operator):

N3795-McElvain Energy, Inc.
 1050 17th Street, Suite 2500
 Denver, CO 80265

Phone: 1 (303) 893-0933

CA No.

Unit:

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST - 13 Wells								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/30/2011
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/30/2011
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/30/2011
- 4a. Is the new operator registered in the State of Utah: _____ Business Number: 8078926-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: _____
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 8/31/2011
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/31/2011
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: 8/30/2011

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: COB000010
- Indian well(s) covered by Bond Number: n/a
- 3a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- 3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
McElvain Oil & Gas Properties, Inc. *N2100*

3. ADDRESS OF OPERATOR:
1050 17th St, Suite 2500 CITY Denver STATE CO ZIP 80265

PHONE NUMBER:
(303) 893-0933

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will start:

☐ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☒ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☐ OTHER: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

McElvain Oil & Gas Properties, Inc. has changed it's name to McElvain Energy, Inc. Effective August 11, 2011.
This is ONLY a name change.

N3795

Our BLM Bond # is COB - 000010

Attached is a well list.

NAME (PLEASE PRINT) Deborah Powell

TITLE Eng Tech Manager

SIGNATURE *Deborah Powell*

DATE 8/29/2011

(This space for State use only)

APPROVED *8/31/2011*

Earlene Russell

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

AUG 30 2011

DIV. OF OIL, GAS & MINING

well_name	sec	twp	rng	api	entity	lease	well	stat	l_num
CENTER FORK F 17-4	17	120S	240E	4304732750	12038	Federal	GW	S	UTU-75206
TOBY FEDERAL F 6-15	06	120S	240E	4304732757	12037	Federal	GW	P	UTU-08424A
ROSEWOOD FED 28-8	28	110S	220E	4304732840	12442	Federal	GW	S	UTU-65355
HANGING ROCK FED I 1-4	01	120S	230E	4304732855	12389	Federal	GW	S	UTU-57455
TUCKER FEDERAL F 8-4	08	120S	240E	4304732872	12125	Federal	GW	P	UTU-70239
TUCKER FEDERAL F 8-2	08	120S	240E	4304732993	12386	Federal	GW	P	UTU-70239
TUCKER FED 8-12	08	120S	240E	4304734729	13740	Federal	GW	S	UTU-70239
HANGING ROCK FED 11-9	11	120S	230E	4304734730	14017	Federal	GW	P	UTU-57455
HANGING ROCK 1-8	01	120S	230E	4304736042	15514	Federal	GW	P	UTU-57455
TUCKER FED 8-6	08	120S	240E	4304736837	15513	Federal	GW	P	UTU-70239
TUCKER FED 8-10	08	120S	240E	4304739187	16399	Federal	GW	S	UTU-70239
HANGING ROCK FED 1-2	01	120S	230E	4304739430	16400	Federal	GW	S	UTU-57455
ATCHEE WASH 33-9	33	100S	230E	4304740631		Federal	OW	APD	UTU-73451

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING

CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

8/1/2014

FROM: (Old Operator): McElvain Energy, Inc. N3795 1050 17th Street, Suite 2500 Denver, CO 80265 303-893-0933	TO: (New Operator): Onshore Royalties, LLC N4140 P.O. Box 2326 Victoria, TX 77902 361-570-1600
---	--

CA No.				Unit:	Haning Rock			
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/14/2014
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/14/2014
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/15/2014
- 4a. Is the new operator registered in the State of Utah: _____ Business Number: 9116573-0161
- 5a. (R649-9-2)Waste Management Plan has been received on: N/A
- 5b. Inspections of LA PA state/fee well sites complete on: N/A
- 5c. Reports current for Production/Disposition & Sundries on: 8/15/2014
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: Not Yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 9/15/2014
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/15/2014
- Bond information entered in RBDMS on: N/A
- Fee/State wells attached to bond in RBDMS on: N/A
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A
- Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UTB000644
- Indian well(s) covered by Bond Number: N/A
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number N/A
- 3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

McElvain Energy, Inc N3795 to Onshore Royalties, LLC. N4140
Effective 8/1/2014

Well Name	Section	TWN	RNG	API Number	Entity	Mineral Lease	Well Type	Well Status	Unit
HANGING ROCK FEDERAL 24-13	24	110S	230E	4304732603	11723	Federal	GW	P	HANGING ROCK
HANGING ROCK FEDERAL I 1-16	1	120S	230E	4304732679	11889	Federal	GW	P	HANGING ROCK
HANGING ROCK FEDERAL I 12-4	12	120S	230E	4304732748	11889	Federal	GW	P	HANGING ROCK
HANGING ROCK FEDERAL F 7-6	7	120S	240E	4304732751	11889	Federal	GW	P	HANGING ROCK
TOBY FEDERAL F 6-15	6	120S	240E	4304732757	12037	Federal	GW	P	
HANGING ROCK FEDERAL I 1-14	1	120S	230E	4304732871	11889	Federal	GW	P	HANGING ROCK
TUCKER FEDERAL F 8-4	8	120S	240E	4304732872	12125	Federal	GW	P	
HANGING ROCK I 11-8	11	120S	230E	4304732935	12306	Federal	GW	P	HANGING ROCK
HANGING ROCK F 7-10	7	120S	240E	4304733100	12400	Federal	GW	P	HANGING ROCK
HANGING ROCK FED 11-9	11	120S	230E	4304734730	14017	Federal	GW	P	
HANGING ROCK I-8	1	120S	230E	4304736042	15514	Federal	GW	P	
TUCKER FED 8-6	8	120S	240E	4304736837	15513	Federal	GW	P	
CENTER FORK F 17-4	17	120S	240E	4304732750	12038	Federal	GW	S	
ROSEWOOD FED 28-8	28	110S	220E	4304732840	12442	Federal	GW	S	
HANGING ROCK FED I 1-4	1	120S	230E	4304732855	12389	Federal	GW	S	
HANGING ROCK FED F 7-8	7	120S	240E	4304732937	12305	Federal	GW	S	HANGING ROCK
TUCKER FEDERAL F 8-2	8	120S	240E	4304732993	12386	Federal	GW	S	
TUCKER FED 8-12	8	120S	240E	4304734729	13740	Federal	GW	S	
HANGING ROCK FED 7-2	7	120S	240E	4304735084	14019	Federal	GW	S	HANGING ROCK
TUCKER FED 8-10	8	120S	240E	4304739187	16399	Federal	GW	S	
HANGING ROCK FED 1-2	1	120S	230E	4304739430	16400	Federal	GW	S	

RECEIVED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AUG 14 2014

FORM 9

DIV. OF OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: McElvain Energy, Inc. N3795		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1050 17th St, Suite 2500 CITY Denver STATE CO ZIP 80265		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: COUNTY:		8. WELL NAME and NUMBER: Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

McElvain Energy, Inc. current operator of the attached wells, has sold all wells on the attached list to:

Onshore Royalties, LLC
P.O. Box 2326
Victoria, TX 77902

N4140

Utah Operator # N4140
Effective 8/1/2014

McElvain Energy, Inc.



Steven W. Shefte
Vice President -COO

Onshore Royalties, LLC.



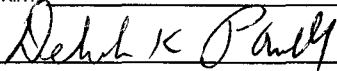
Michael Hahn
Operations Manager

BLM Bond: UTB000644

NAME (PLEASE PRINT) Deborah Powell

TITLE Eng Tech Manager

SIGNATURE



DATE 8/13/2014

(This space for State use only)

APPROVED

SEP 15 2014

DIV. OIL GAS & MINING
BY: Rachel Medina

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining

Change of Operator From McElvain Energy, LLC (N3795)
 To: Onshore Royalties, LLC (N4140)

Well Name	API	Legal	Status	Well Type	Utah ID	BLM ID
Center Fork F 17-4	43-047-32750	T12S R24E Sec 17 NWNW	S	GW	12038	UTU75206
Hanging Rock Fed 11-9	43-047-34730	T12S R23E Sec 11 NESE	P	GW	14017	UTU57455
Hanging Rock Fed 1-2	43-047-39430	T12S R23E Sec 1 NWNE	S	GW	16400	UTU57455
Hanging Rock Fed 1-8	43-047-36042	T12S R23E Sec 1 SENE	P	GW	15514	UTU57455
Hanging Rock Fed 7-2	43-047-35084	T12S R24E Sec 7 NWNE	S	GW	14019	UTU73518B
Hanging Rock Fed I 1-14	43-047-32871	T12S R23E Sec 1 SESW	P	GW	11889	UTU73518B
Hanging Rock Fed 24-13	43-047-32603	T11S R23E Sec 24 SWSW	P	GW	11723	UTU73518A
Hanging Rock Fed 7-6	43-047-32751	T12S R24E Sec 7 SENW	P	GW	11889	UTU73518B
Hanging Rock Fed 7-8	43-047-32937	T12S R24E Sec 7 SENE	S	GW	12305	UTU73518B
Hanging Rock Fed F 7-10	43-047-33100	T12S R24E Sec 7 NWSE	P	GW	12400	UTU73518B
Hanging Rock Fed I 1-16	43-047-32679	T12S R23E Sec 1 SESE	P	GW	11889	UTU73518B
Hanging Rock Fed I 11-8	43-047-32935	T12S R23E Sec 11 SENE	P	GW	12306	UTU73518B
Hanging Rock Fed I 1-4	43-047-32855	T12S R23E Sec 1 NWNW	S	GW	12389	UTU57455
Hanging Rock Fed I-12-4	43-047-32748	T12S R23E Sec 12 NWNW	P	GW	11889	UTU73518B
Rosewood Fed 28-8	43-047-32840	T11S R22E Sec 28 SENE	S	GW	12442	UTU65355
Toby Federal F 6-15	43-047-32757	T12S R24E Sec 6 SWSE	P	GW	12037	UTU08424A
Tucker Fed 8-10	43-047-39187	T12S R24E Sec 8 NWSE	S	GW	16399	UTU70239
Tucker Fed 8-12	43-047-34729	T12S R24E Sec 8 NWSW	S	GW	13740	UTU70239
Tucker Fed 8-6	43-047-36837	T12S R24E Sec 8 SENW	P	GW	15513	UTU70239
Tucker Fed F 8-2	43-047-32993	T12S R24E Sec 8 NWNE	P	GW	12386	UTU70239
Tucker Fed F 8-4	43-047-32872	T12S R24E Sec 8 NWNW	P	GW	12125	UTU70239